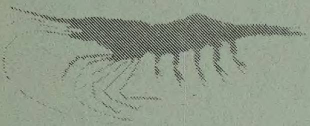
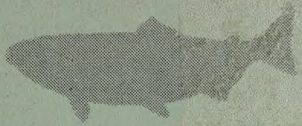
National Marine Fisheries Service

SOUTHWEST REGION

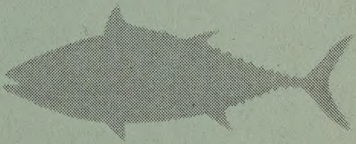
300 S. Ferry Street
Terminal Island, CA 90731





CURRENT YEAR OPERATION PLANS

FOR FISCAL YEAR 1990



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OCTOBER 1989

ADMINISTRATIVE REPORT SWR-89-06

This Administrative Report is issued as an informal document to ensure prompt dissemination of preliminary results, interim reports and special studies. We recommend that it not be abstracted or cited.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL MARINE FISHERIES SERVICE
SOUTHWEST REGION
CURRENT YEAR OPERATION PLANS
FOR
FISCAL YEAR 1990

This report presents the FY-1990 Current Year Operation Plans (CYOPs) of the Southwest Region. Budget summaries for each Task and for each office and laboratory are also presented.

The CYOPs of the Southwest Regional Office and the Southwest Fisheries Center set out the objectives, methodology, resources, activities, events and milestones for each project (Task) to be undertaken by the Region during the fiscal year. In several cases, two or more Tasks may constitute elements of a larger program.

The CYOPs are plans, and as such, represent the best estimates that the staff could make during the fall of 1989. The user is cautioned to use the data only as estimates; details of budget or program changes put into effect since October 1, 1989, can be obtained from the Regional Director or from the Science and Research Director, Southwest Region.

Finally, the information concerning detailed allocations among budget classes (labor, contracts, travel, etc.) presented in this report should be handled cautiously so as to safeguard the Government's competitive procurement process.

David Mackett
Southwest Fisheries Center
P.O. Box 271
La Jolla, California 92038

Ronald Scheltens
Southwest Region
300 S. Ferry Street, Room 2005
Terminal Island, California 90731

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SWR Administrative Report No. SWR-89-6

FORM A

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATION PLAN

REGIONAL INDEX — FMC - SWR

CYOP REF#	TITLE	TASK LEADER	FTE	AMOUNT ($K)
001	Director's Office, T.I. CA	E. C. Fullerton	12.6	724.2
050	Center Support	I. Barrett	15.2	865.2
051	Scientific Services	D. Neal	4.0	120.8
052	Information Technology Services	D. Roll	6.0	275.0
053	Fishery Information Network	D. Neal	3.0	149.1
060	Senior Scientist Unit	W. Perrin	2.7	131.9
061	UNLV Limnological Research	I. Barrett	0.0	400.0
062	Tiburon Move	B. Remington	0.0	100.0
101	Fisheries Management and Analysis	S. Fougner	7.6	488.2
102	Tuna/Porpoise Management	N. Mendes	29.5	1,054.4
103	Habitat Conservation	J. Slawson	8.7	454.4
104	Protected Species	J. Lecky	6.3	324.6
201	Industry Analysis and Information	J. Dentler	3.0	167.7
202	Tuna Fishery Monitoring Program	G. Yamasaki	4.8	250.0
203	Statistics and Market News Program	P. Donley	2.8	126.8
204	Trade Analysis Program	S. Sonu	2.5	315.9
301	Pop. Biol. of Fish of Coastal E. Pacific	J. Hunter	8.1	344.0
304	Fisheries Environmental Investigation	R. Laurs	6.0	293.6
318	Ecology and Systematics of Fishes	H. Moser	5.0	230.1
319	Coastal & Pacific Fisheries Resource Investigation	R. Charter	10.2	474.5
320	Survey Systems Development and Evaluation	P. Smith	5.7	298.1
330	Commercial and Recreational Fish. Mgmt.	D. Huppert	6.3	396.0

ECOSYSTEM ARRAY ($K)

. ATL. SHELF	S. ATL. & GOM SHELF	ATL. OCEANIC	CAL. CURRENT	PAC. OCEANIC	GOA & BERING	ANT-ARCTIC	OTHER	TOTAL

APPROVAL SIGNATURE E C Fullerton

FORM A

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATION PLAN

REGIONAL INDEX

FMC - SWR

YOP REF#	TITLE	TASK LEADER	FTE	AMOUNT ($K)
401	Tuna and Large Pelagics Stock Investigation	N. Bartoo	5.5	318.8
411	Fisheries Data Monitoring	A. Coan	10.0	352.3
421	Tuna and Pelagic Fisheries Investigation	G. Sakagawa	2.0	83.9
431	Pelagic Ecosystem Modelling	P. Kleiber	3.0	182.5
510	Fishery Independent Assessment-Marine Mammals	D. DeMaster	14.0	485.8
520	Biological Assessment Program - Marine Mammals	A. Dizon	12.0	508.2
530	Fishery Dep. Assess. Program - Marine Mammals	S. Reilly	7.5	307.7
540	Coastal Marine Mammals	J. Barlow	3.0	169.0
601	Antarctic Ecosystem Research	R. Holt	4.5	1,300.0
700	Director's Office & Administration	G. Boehlert	7.7	398.2
701	Data Mgmt. and Technical Service	D. Tieman	12.7	543.9
710	Fishery Oceanography Program	G. Boehlert	2.9	165.2
720	Pelagic Stock Assessment Program	J. Wetherall	2.9	193.0
721	Pelagic Ecosystem Program	C. Boggs	4.0	210.4
722	Pelagic FMP Research Program	R. Skillman	3.0	151.3
723	Evaluation of Drift Net Impacts	J. Wetherall	1.1	45.2
730	Insular Stock Assessment	D. Somerton	6.0	219.0
731	Seamount Resources	D. Somerton	3.0	127.7
732	Fishery Enhancement and Dynamics	J. Polovina	8.0	356.4
733	Hawaii Stock Mgmt. Program	G. Boehlert	0.0	400.0
740	Fishery Management Research Program	S. Pooley	8.4	339.4
750	Marine Mammal and Endangered Species	W. Gilmartin	7.6	358.2
		REGIONAL TOTAL		

ECOSYSTEM ARRAY ($K)

N. ATL. SHELF	S. ATL. & GOM SHELF	ATL. OCEANIC	CAL. CURRENT	PAC. OCEANIC	GOA & BERING	ANT-ARCTIC	OTHER	TOTAL

APPROVAL SIGNATURE E C Fullerton

FORM A

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATION PLAN

REGIONAL INDEX

FMC - SWR

YOP REF#	TITLE	TASK LEADER	FTE	AMOUNT ($K)
800	Tiburon Laboratory Administration	A. MacCall	8.1	318.8
811	Groundfish Analysis Investigation	W. Lenarz	9.4	363.9
812	Groundfish Communities	E. Hobson	7.0	275.6
813	Physiological Ecology of Groundfish	J. Whipple	6.0	300.0
821	Research & Tech. Support For Fisheries Management	A. MacCall	4.5	288.7
901	Pacific Fisheries Environmental Group	A. Bakun	9.3	511.4
		REGIONAL TOTAL	323.1	17,259.0

ECOSYSTEM ARRAY ($K)

N. ATL. SHELF	S. ATL. & GOM SHELF	ATL. OCEANIC	CAL. CURRENT	PAC. OCEANIC	GOA & BERING	ANT-ARCTIC	OTHER	TOTAL
			6037.5	9521.5		1300.0	400.0	17,259.0

APPROVAL SIGNATURE E.C. Fullerton

FORM B

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

REGIONAL LOCATION SUMMARY

FMC SWR

LOCATION	CYOP REF. NO.	TASK NO.	FTE	TOTAL ($K)
1. Terminal Island, CA	001	9WGN40TI	11.6	623.2
	101	8L2A6CFM	5.8	403.2
	103	8L2C14HC	2.3	157.8
	104	8L2B3UCA	4.3	235.2
	201	8L1B2ATA	2.0	100.0
	202	8L1B2CTT	1.8	50.0
	203	8L2A4NMA	2.0	96.1
		8L2A3NMN	0.8	30.7
	204	8L3B2LTA	2.5	315.9
LOCATION TOTAL			33.1	2,012.1
2. San Diego, CA (La Jolla)	102	8L2B2TMP	8.2	330.3
		8L2B2TBT	21.3	724.1
	050	9WGN40CO	7.0	418.6
		9WGN40LO	6.2	252.4
		9WGN40MO	2.0	194.2
	051	8L1C1AYO	3.0	90.7
		8L1C1ALT	1.0	30.1
	052	8L1C1AGO	6.0	275.0
	053	8L1C1AUW	2.0	102.5
		8L1C1AUP	1.0	46.6
	060	8L1C5VP1	2.7	131.9
	061	8L1A1A00	0.0	400.0
	062	8L1A1ATM	0.0	100.0
	301	8L1A3AAO	8.1	344.0
	304	8L1A4BEO	6.0	293.6
	318	8L1A3AGO	5.0	230.1
	319	8L1A6AHO	10.2	474.5
	320	8L1A6AJO	5.7	298.1
	330	8L1C2ASO	5.5	256.0
		8L1C2AS2	0.8	140.0

FORM B

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

REGIONAL LOCATION SUMMARY

FMC SWR

LOCATION	CYOP REF. NO.	TASK NO.	FTE	TOTAL ($K)
2. San Diego, CA (con't)	401	8L1C5AB2	4.5	251.1
		8L1C5AB1	1.0	67.7
	411	8L1C1AW1	4.5	172.4
		8L1C1VW2	5.5	179.9
	421	8L1C2A30	2.0	83.9
	431	8L1C2A20	2.0	79.0
		8L1C2A40	1.0	103.5
	510	8L1C4VA1	2.0	89.0
		8L1C4VA2	5.6	180.3
		8L1A6VW0	6.4	216.5
	520	8L1A5VR4	4.0	264.2
		8L1A5VU1	8.0	244.0
	530	8L1A6AW1	5.5	238.1
		8L1A6AW2	2.0	69.6
	540	8L1A5VR1	3.0	169.0
	601	8L1A6H01	2.5	783.6
		8L1A6H02	1.5	252.9
		8L1A6H03	0.5	37.7
		8L1A6H04	0.0	225.8
LOCATION TOTAL			163.1	8,840.9
3. Honolulu, HI	001	9WGN40TI	1.0	101.0
	101	8L2A6CFM	1.8	85.0
	103	8L2C14WP	1.0	64.0
	104	8L2B3UWP	2.0	89.4
	700	9WGN40H1	1.7	116.8
		9WGN40H2	6.0	281.4
	701	8L1C1AJ1	7.6	306.1
		8L1C1AJ2	3.8	162.4
		8L1C1AJ4	1.3	75.4
	710	8L1A7A00	2.9	165.2
	720	8L1C5AC0	2.9	193.0

FORM B

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

REGIONAL LOCATION SUMMARY

FMC SWR

LOCATION	CYOP REF. NO.	TASK NO.	FTE	TOTAL ($K)
3. Honolulu, CA (con't)	721	8L1A6AK0	4.0	210.4
	722	8L1C1A00	3.0	151.3
	723	8L1C5E10	1.1	45.2
	730	8L1C5AH1	6.0	219.0
	731	8L1A6AE0	3.0	127.7
	732	8L1A4BRS	8.0	356.4
	733	8L1A1A01	0.0	400.0
	740	8L1C2AP0	7.6	265.6
		8L1C2AP1	0.8	73.8
	750	8L1A3VW0	6.1	285.0
		8L1A3VW1	2.0	71.3
LOCATION TOTAL			73.1	3,847.3
4. Tiburon, CA	201	8L1B2ATA	1.0	67.7
	800	9WGN40T2	6.1	188.1
		9WGN40T3	1.0	44.2
		9WGN40T0	1.0	86.5
	811	8L1C2AM0	9.4	363.9
	812	8L1A3AP0	7.0	275.6
	813	8L1A3AT0	6.0	300.0
	821	8L1C3A00	4.5	288.7
LOCATION TOTAL			36.0	1,614.7
5. Santa Rosa, CA	103	8L2C14NC	5.4	232.6
6. Monterey, CA	901	8L1C5BT0	9.3	511.4
7. American Samoa	202	8L1B2CTT	3.0	200.0
		TOTALS	323.1	17,259.0

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	August 1989	
FMC	REF. NO.	PAGE
SWR	001	1 OF 5

RESOURCE SUMMARY					
TITLE ->	Director's Office, T.I., CA				
TASK NAMES ->					\/
OBJECT CLASS	TASK #1 9WGN40TI	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	492.3				492.3
PERS. BENEFITS	95.4				95.4
TRAVEL	47.5				47.5
TRANSPORTATION	1.0				1.0
RENT,COMM.,UTIL.	58.2				58.2
PRINT/REPROD.	2.5				2.5
CONTRACTS	19.0				19.0
SUPPLIES/MATERIAL	7.3				7.3
EQUIPMENT	1.0				1.0
GRANTS					
TOTALS ->	724.2				724.2
FTE (FTP)	11.0				11.0
FTE (OTFTP)	1.6				1.6

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE EC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
SWR	001	

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Director's Office	Terminal Is.	12.6	724.2	E.C. Fullerton	Management Fund

A. PROBLEM STATEMENT/OBJECTIVE: The office of the Regional Director serves as the representative of the Assistant Administrator for Fisheries in the Southwest Region for all policy actions, program activities, and interactions with the private and public sectors.

B. METHODOLOGY/APPROACH: The office assesses, manages and promotes the conservation and management of living marine resources. It oversees the provision of accurate and timely products, services and information to its constituency. Further, the office supports private sector development through the transfer of science and technology, reductions in administrative barriers and promotion of commercial and recreational business growth. It also provides program guidance through the development of explicit, time-phased plans for short- and long-range goals and evaluate programs periodically to assess their relative balance in resource allocation. Finally, the office provides for and maintains efficient management practices, administrative procedures and supervision of allocated human, financial and material resources.

C. PRODUCT/SERVICES: Through the programs administered by the Regional Director, close and effective relationships within and between the users of living marine resources are developed and maintained. Users are also provided with rationale and justification for policy actions and program activities.

D. CLIENTS: The general public; environmental, conservation and protection groups; commercial and recreational fishing industries; recreational fishermen; educational institutions; representatives of state and local governments; and foreign fishing interests.

E. CONTRACTS: None.

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	001	3 OF 5

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Fullerton, E. Charles	Regional Director	SES 2	100	9WGN4000
2. Smith, J. Gary	Deputy Regional Director	GM/15/0	100	"
3. Vacant	Pacific Island Coordinator	GM/14/0	100	"
4. Vacant	No. Area Coordinator	GM/14/0	100	"
5. Scheltens, Ronald B.	Executive Officer	GM/13/0	100	"
6. Helvey, Mark	Marine Rec. Fish Coord.	GS/12/4	100	"
7. Rodriquez, Maryann	Writer Editor	GS/7/8	100	"
8. Stevenson, Leona D.	Secretary	GS/7/10	100	"
9. Canlis, Florence F.	Admin. Svcs. Assistant	GS/7/8	100	"
10. Washington, Melva L.	Computer Programmer	GS/7/3	80	"
11. Enriquez, Marie S.A.M.	Admin. Support Clerk	GS/6/6	100	"
12. Butler, Jaine M.	Data Transcriber	GS/4/1	80	"

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	001	4 OF 5

MILESTONE ARRAY

TASK #	SEQ	MAE	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 89				90		91	
				1	2	3	4	1	2	1	2
9WGN4000	1	M	Complete annual review of federally funded Pacific Is. fisheries development projects and recommend priorities for S-K solicitation.	N							
"	2	M	Complete report on resource agencies' activities supporting California's long-range plan for marine recreational fishing.	N							
"	3	M	Complete report updating current priorities of MRF constituency relating to California's long-range MRF plan.	N							
"	4	M	Submit manuscript for publication on California halibut recreational fishery based on analyses of MRFSS data.	D							
"	5	M	Develop and disseminate brochure, press release and magazine article on the dangers of hand feeding sea lions.	D							
"	6	M	Conduct annual meeting to evaluate foreign and domestic measures taken to reduce dolphin mortality.	D							
"	7	M	Complete plan to revise the tuna purse seining video.	D							
"	8	M	Complete a workplan to develop the SWR Administrative Information Management System (AIMS).		J						
"	9	M	Complete program to facilitate regionalized access and use of MRFSS database including the coordination of MRF information needs.		F						
"	10	M	Complete assessment of South Pacific Treaty requirements and prepare recommendations for any modifications.		F						
"	11	M	Complete annual review of the South Pacific Treaty with DOS and the tuna industry.		M						

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	001	5 OF 5

MILESTONE ARRAY

TASK #	MAE	SEQ	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
9WGN400	E	12	Complete plan to provide timely distribution of pertinent fishery information to constituents.			M					
"	M	13	Conduct annual technical and constituent reviews of S-K proposals.				J				
"	M	14	Complete plan in cooperation with CDFG and MRF industry to establish a cooperative education program for conservation awareness.				J				
"	M	15	Complete ranking recommendations for Pacific Island area S-K projects.				A				
"	M	16	Submit Semi-annual and annual Affirmative Action Plan reports for SWR to AA.			A	S				
"	M	17	Submit Financial Operating Plans (FOPs) for SWR.				S				
"	A	18	Prepare and distribute newsletters on SWR/SWC/CDFG programs and joint fisheries management activities.	-	-	-	-	-	-	-	-
"	A	19	Participate in public education and outreach programs to improve understanding of NOAA Fisheries programs.	-	-	-	-	-	-	-	-

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	August 1989	
FMC	REF. NO.	PAGE
SWR	050	1 OF 3

RESOURCE SUMMARY

TITLE ->	Center Support				
TASK NAMES ->	Director	L.J. Admin Support	L.J. Bldg. & Grounds		\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	9WGN40C0	9WGN40L0	9WGN40M0		
DIRECT LABOR	311.8	125.6	49.4		486.8
PERS. BENEFITS	50.3	18.7	7.3		76.3
TRAVEL	36.0	7.2			43.2
TRANSPORTATION	1.0	13.5			14.5
RENT,COMM.,UTIL.		32.6	51.0		83.6
PRINT/REPROD.	4.0	1.0			5.0
CONTRACTS	2.5	29.8	65.9		98.2
SUPPLIES/MATERIAL	2.0	22.0	20.0		44.0
EQUIPMENT	11.0	2.0	.6		13.6
GRANTS					
TOTALS ->	418.6	252.4	194.2		865.2
FTE (FTP)	7.0	5.5	1.0		13.5
FTE (OTFTP)		.7	1.0		1.7

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett F.C. Director

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
SWR	050	2 OF 3

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Center Support	La Jolla, CA	15.2	865.2	Barrett	General Support

A. PROBLEM STATEMENT/OBJECTIVE: Center management and La Jolla support

B. METHODOLOGY/APPROACH:

C. PRODUCT/SERVICES: Management and Administration support related to Region/Center programs

D. CLIENTS: Region/Center/NMFS programs and goals

E. CONTRACTS: No research contracts

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	050	3 OF 3

PERSONNEL SCHEDULE

#	NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1.	Barrett, Izadore	Director	ES IV	100	9WGN40C0
2.	Neal, Richard	Deputy Director	GM-15	100	"
3.	Remington, Benjamin F.	Executive Officer	GM-13	100	"
4.	Smith, Susan	Writer	GS-11	100	"
5.	Hostler, Virginia	Equal Employment Manager	GS-9	100	"
6.	Henson, Donna	Secretary	GS-7	100	"
7.	LaRoche, Nancy	Computer Assistant	GS-7	100	"
8.	Engstrand, Barbara R.	Prog. Support Specialist	GS-11	100	9WGN40L0
9.	Watkins, Barbara A.	Procurement Agent	GS-7	100	"
10.	Vacant	Travel Clerk	GS-6	50	"
11.	Whyte, Ronald H.	Cash & Attendance Clerk	GS-4	100	"
12.	Manaligod, Esperanza	Clerk Typist	GS-4	100	"
13.	Holder, P. Gaye	Clerk Typist	GS-4	100	"
14.	Marrow, Merle	Engineering Technician	GS-9	100	9WGN40M0
15.	Vacant (T)	Maintenance Man	WG 3/4	100	"
16.	Abbott, E. (T, P/T)	Clerk	GS-4	70	9WGN40L0

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	August 1989	
FMC	REF. NO.	PAGE
SWR	051	1 OF 3

RESOURCE SUMMARY					
TITLE ->	Scientific Services				
TASK NAMES ->	Illustra.	Editorial			V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C1AYO	8L1C1ALT			
DIRECT LABOR	78.0	25.3			103.3
PERS. BENEFITS	12.7	4.1			16.8
TRAVEL					
TRANSPORTATION					
RENT, COMM., UTIL.					
PRINT/REPROD.					
CONTRACTS					
SUPPLIES/MATERIAL		.7			.7
EQUIPMENT					
GRANTS					
TOTALS ->	90.7	30.1			120.8
FTE (FTP)	3.0	1.0			4.0
FTE (OTFTP)					

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
EDC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
SWR	051	2 OF 3

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Scientific Services	La Jolla,CA	4.0	120.8	Neal	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: Scientific Services include library, editorial and illustrative services designed to meet the unique requirements of a large research facility. Activities are closely integrated with the research of the SWC.

B. METHODOLOGY/APPROACH: To provide professional level expertise to SWC scientists in the design, literature search and publication of research. A library specializing in marine fisheries is maintained on site. Scientific editorial and typing services are provided to the Center research staff. Capabilities are provided to the Center and the Region in drafting, design, photography and desk-top publishing.

C. PRODUCT/SERVICES: Library, illustrative and editorial.

D. CLIENTS: Research staff of SWC and SWR office staff.

E. CONTRACTS: None

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Prescott, Lorraine	Editorial Assistant	GS 7/10	100	8L1C1ALT
2. Losey, Debra	Librarian	GS 9/04	100	8L1C1ALL
3. Stephan, Betty	Library Technician	GS 5/04	100	"
4. Raymond, Kenneth	Scientific Illustrator	GS 12/08	100	8L1C1AYO
5. Allen, Roy	Scientific Illustrator	GS 9/06	100	"
6. Orr, Henry	Scientific Illustrator	GS 9/06	100	"

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	August 1989	
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RESOURCE SUMMARY

TITLE ->	Information Technology Services (ITS)				
TASK NAMES ->	ITS LaJolla				V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C1AGO				
DIRECT LABOR	185.6				185.6
PERS. BENEFITS	30.0				30.0
TRAVEL	4.5				4.5
TRANSPORTATION	0.2				0.2
RENT, COMM., UTIL.					
PRINT/REPROD.					
CONTRACTS	27.0				27.0
SUPPLIES/MATERIAL	9.6				9.6
EQUIPMENT	18.1				18.1
GRANTS					
TOTALS ->	275.0				275.0
FTE (FTP)	5				5.0
FTE (OTFTP)	1				1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Gabore Barrett
E C Fullerton

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FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Information Technology Svcs	La Jolla, CA	5	275.0	Roll	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: Information Technology Services (ITS) provides the professional computer technology support services for the Center's management, research, and administrative staff to efficiently and effectively meet NMFS mission in the management of the living marine resources. The services cover a broad spectrum of computer technology to support the multi-disciplined environment in the Center.

B. METHODOLOGY/APPROACH: To fulfill the charter of ITS, the ITS staff stays abreast of the rapid-paced changing technology of computer hardware, software, and telecommunication fields 1) by reviewing the weekly and monthly computer related magazines/newsweeks, 2) by evaluating off-the-shelf equipment and software to assess how they might contribute to the Center's productivity, and 3) by attending advanced technical training workshops, seminars, and trade shows.

C. PRODUCT/SERVICES: ITS serves 1) as the technical advisor to the SWC Science and Research Director's Office in the development of the long/short range ADP plans and the strategy for the transition from the obsolete to the next-generation computer resources and 2) as the service unit for the Center's staff by designing/implementing information management systems, providing hardware/software and telecommunication consulting services, and conducting/providing computer-related training programs.

D. CLIENTS: The primary clients of the services are the management, scientific, technical, and administrative personnel at the La Jolla Laboratory. The ITS staff interacts with the Southwest Region Office and the remote laboratories of the Southwest Center and provides the liaison with NMFS HQ, other Fisheries Regions/Centers, and National Ocean Service.

E. CONTRACTS:

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Roll, Dorothy D.	Supv. Computer Systems Analyst	GM 334-13	100	8L1C1AGO
Ralston, Frank M.	Computer Systems Analyst	GS 334-11-6	100	"
Jacobson, Susan	Computer Programmer Analyst	GS 334-11-5	100	"
Bistodeau, Robert S.	Computer Programmer Analyst	GS 334-11-2	100	"
Bones, Matthew D.	Electronics Technician	GS 856-9-5	100	"
Vacant (Temp.)	Computer Programmer	GS 334-5-1	100	"

FORM 4

NOAA FISHERIES
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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
			ADMINISTRATIVE INFORMATION MANAGEMENT SYSTEMS (AIMS)								
8L1C1AGO	A	1	Continue master plan development	X							
	E	2	Submit master plan for approval		X						
	E	3	Begin master plan implementation			X					
			LAN SERVICE EXPANSION/MANAGEMENT								
	A	4	Connect MAC II to LAN	X							
	E	5	Complete LAN Users Manual		X						
	E	6	Complete LAN System Administration Documentation			X					
			APPLICATION PROGRAMMING SERVICE								
	E	7	Complete refinement of Specimen Entry Module for RACEBASE	X							
	E	8	Complete conversion of Monk Seal Data Monitoring Program		X						
			SHIPBOARD DATA ACQUISITION SYSTEM								
	E	9	Complete configuration options for an integrated Shipboard Data Acquisition System		X						
	A	10	Test selected configured system				X				
			COMPUTER HARDWARE MAINTENANCE								
	A	11	Implement a preventive maintenance program for PC's and peripherals	X							

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE ->	Fishery Information Network				
TASK NAMES ->	WPACFIN	PACFIN			\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C1AUW	8L1C1AUP			
DIRECT LABOR	74.7	39.2			113.9
PERS. BENEFITS	9.9	6.4			16.3
TRAVEL	3.5	1.0			4.5
TRANSPORTATION	.0				.0
RENT,COMM.,UTIL.	1.5				1.5
PRINT/REPROD.	1.0				1.0
CONTRACTS	7.9				7.9
SUPPLIES/MATERIAL	1.9				1.9
EQUIPMENT	2.1				2.1
GRANTS	0				0
TOTALS ->	102.5	46.6			149.1
FTE (FTP)	1.0	1.0			2.0
FTE (OTFTP)	1.0				1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
EC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Fishery Information Network	La Jolla,CA	2	149.1	Neal	Info. Anal. and Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: To provide timely and accurate fisheries data and information required for planning and management of Pacific Ocean fisheries to states, councils, territories, and commonwealth agencies.

B. METHODOLOGY/APPROACH: Fishery data are collected primarily by state agencies and then accumulated, compiled and maintained in a regional data base system. FIN provides data summaries and answers data requests from all qualified users.

C. PRODUCT/SERVICES: The FIN provides resources and technical assistance to state, territorial, and commonwealth fisheries agencies as a cooperative effort to establish and maintain regional data networks to meet informational requirement of the MFCMA.

D. CLIENTS: Users of FIN's data banks include state and federal government agencies, university researchers, consulting firms and industry.

E. CONTRACTS:

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. Hamm, David C.	Computer Systems Analyst	GS 12/07	100	8L1C1AUW
2. Hornof, Gerald F.	Computer Specialist	GS 12/05	100	8L1C1AUP
TEMPORARIES:				
1. Quach, Michael M. C.	Computer Programmer	GS 5/01	100	8L1C1AUW

FORM 4

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1C1AUW	A	1	Support WPACFIN Fisheries Data Coordinating Committee	X							
	A	2	Maintain and upgrade data collecting and processing system in the Western Pacific	X							
	A	3	Liaison with industry and other Pacific Island governments	X							
	A	4	Support access to central WPACFIN data bases	X							
	A	5	Collect, centralize and maintain domestic fisheries data from Guam, American Samoa, and Commonwealth of the Northern Mariana Islands	X							
	A	6	Provide data and summary reports needed for planning and management	X							
	A	7	Provide data request summary reports on an as needed basis	X							
	M	8	With the FDCC/TS produce and distribute a volume of the series "Fishery Statistics of the Western Pacific"			A			A		A

FORM 1

NOAA FISHERIES
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DATE	8/89	
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RESOURCE SUMMARY					
TITLE ->	Senior Scientist Unit				
TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C5VP1				
DIRECT LABOR	95.9				95.9
PERS. BENEFITS	15.5				15.5
TRAVEL	4.5				4.5
TRANSPORTATION	0.5				0.5
RENT,COMM.,UTIL.	2.0				2.0
PRINT/REPROD.	2.0				2.0
CONTRACTS	5.0				5.0
SUPPLIES/MATERIAL	4.5				4.5
EQUIPMENT	2.0				2.0
GRANTS	0				0
TOTALS ->	131.9				131.9
FTE (FTP)	2.0				2.0
FTE (OTFTP)	0.7				0.7

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

SWR 510, 520, 530, 540

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FORM 2

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Senior Scientist Unit	SWC-La Jolla	2.67	131.9	W.F. Perrin	Info. Analysis Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: Support the conservation and management at domestic and international levels of marine mammals and endangered species and their critical habitats while evaluating commercial and recreational utilization as permitted by law (Ecosystem objective No.4 of West Coast and Pacific Insular Ecosytem Group).

B. METHODOLOGY/APPROACH:
1. Provide a scientific basis for delineation of stocks of dolphins to be managed in conjunction with the tuna fishery in the ETP.
2. Provide expertise, advice and information on population biology for international conservation and management of cetaceans.

C. PRODUCT/SERVICES:
1. Technical contributions to the literature on population biology of cetaceans in ETP and elsewhere.
2. Advice and planning documents.
3. Organization and operation of national and international workshops, symposia and advisory bodies.

D. CLIENTS:
1. SWC/ SWR
2. IWC
3. IUCN

E. CONTRACTS:
1. Gillnet workshop (International Whaling Commission)

FORM 3

NOAA FISHERIES

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Perrin, William F.	Sup. Fishery Biologist	GM/15	100	8L1A5VP1
Kashiwada, Jerry V.	Biological Technician	GS/5/1-2	100	8L1A5VP1
Ortiz, Jill (Temp.)	Biological Technician	GS/5/1	67	8L1A5VP1

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISTRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L1A5VP1	M	1	Complete joint paper with Soviets on non-metrical methods	O							
8L1A5VP1	M	2	Complete draft of paper on spinner morphology		M						
8L1A5VP1	A	3	Prepare for IWC Meetings	X	X	X	X	X	X	X	X
8L1A5VP1	E		IWC Meetings			M			M		M
8L1A5VP1	E	4	Complete analysis of ETP dolphin skull data		J						
8L1A5VP1	A	5	Organize workshop on gillnets and cetaceans	X	X	X	X				
8L1A5VP1	E		Workshop on gillnets and cetaceans					O			
8L1A5VP1	A		Edit proceedings of gillnet workshop						X	X	
8L1A5VP1	E		Complete draft of proceedings of gillnet workshop								J

FORM 1

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RESOURCE SUMMARY					
TITLE ->	UNLV Limnological Research				
TASK NAMES ->	UNLV				\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A1A00				
DIRECT LABOR					
PERS. BENEFITS					
TRAVEL					
TRANSPORTATION					
RENT,COMM.,UTIL.					
PRINT/REPROD.					
CONTRACTS					
SUPPLIES/MATERIAL					
EQUIPMENT					
GRANTS	400.0				400.0
TOTALS ->	400.0				400.0
FTE (FTP)	0				0
FTE (OTFTP)	0				0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
E.C. Fullerton

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FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
UNLV Limnological Research	UNLV	0	400.0	Barrett	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: Fishing is one of the most important recreational activities of the lake Mead National Recreation Area with an estimated annual economic value in excess of $70 million. major decreases, however, have occurred in the fisheries of Lake Mead over the past two decades. The decline in the numbers of threadfin shad, the principal forage species for largemouth and striped bass, appears to be a major contributor to the fisheries problems. Studies indicate that the shad population decline is related to a decrease in lake fertility that occurred after dams were built upstream in the 1960's. As the reservoirs upstream slowly filled, they cut off the phosphorus-rich sediments that historically fertilized the upper basin of Lake Mead. As the phosphorus levels declined, so did the algae, zooplankton and threadfin shad--vital components of the lake's food chain.

B. METHODOLOGY/APPROACH: Large-scale fertilization has been successfully practiced in some North American lakes to enhance fish stocks. The Lake Mead Fertilization Project is a three-year experiment designed to investigate the management potential of fertilization for improving the sport fisheries of Lake Mead. The experiment involves an annual application of up to 25,000 gallons of ammonium polyphosphate to 20,000 acres of the Overton Arm of Lake Mead.

C. PRODUCT/SERVICES: Recommendations on the biological and economical feasibility of increasing fisheries productivity by means of artificial fertilization.

D. CLIENTS: Recreational fishermen

E. CONTRACTS: University of Nevada, Las Vegas $400K - Lake Mead fertilization experiment for improved fisheries.

CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

				FY 90				91		92	
TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	1	2	3	4	1	2	1	2
8L1A1A00	A	1	Issue grant to UNLV for limnological research on Lake Mead			J					

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE ->	Tiburon Move (Bodega Bay)				
TASK NAMES ->	Tiburon Move				V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A1ATM				
DIRECT LABOR					
PERS. BENEFITS					
TRAVEL					
TRANSPORTATION					
RENT,COMM.,UTIL.					
PRINT/REPROD.					
CONTRACTS	100.0				100.0
SUPPLIES/MATERIAL					
EQUIPMENT					
GRANTS					
TOTALS ->	100.0				100.0
FTE (FTP)	0				0
FTE (OTFTP)	0				0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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NOAA FISHERIES
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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Tiburon Move	La Jolla, CA		100.0	Remington	Tiburon Move (Bodega Bay)

A. PROBLEM STATEMENT/OBJECTIVE: Planning for moving from Tiburon to a new lab to be constructed at Bodega Bay, CA

B. METHODOLOGY/APPROACH: Contract for planning for construction

C. PRODUCT/SERVICES: Reports/plans/drawings

D. CLIENTS: Self

E. CONTRACTS: Architectural and engineering specifications and drawings

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NOAA FISHERIES

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
Task #1	A	1	Planning for construction of a new laboratory at Bodega Bay	O			S				
Task #1	E	2	Contract for new construction							E	

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY

TITLE ->	Fisheries Management & Analysis				
TASK NAMES ->					\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L2A6CFM				
DIRECT LABOR	244.7				244.7
PERS. BENEFITS	50.9				50.9
TRAVEL	21.9				21.9
TRANSPORTATION	4.1				4.1
RENT,COMM.,UTIL.	43.2				43.2
PRINT/REPROD.	1.1				1.1
CONTRACTS	115.3				115.3
SUPPLIES/MATERIAL	4.0				4.0
EQUIPMENT	3.0				3.0
GRANTS					
TOTALS ->	488.2				488.2
FTE (FTP)	7.6				7.6
FTE (OTFTP)					

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Ec Fullerton

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FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Fisheries Mgmt. & Analysis	Terminal Is.	7.6	488.2	Svein Fougner	Fisheries Management Program

A. PROBLEM STATEMENT/OBJECTIVE: This program carries out Regional responsibilities under the Magnuson Fishery Conservation and Management Act (MFCMA) and other laws for conservation and management of fishery resources of Federal concern, including support to the Pacific and Western Pacific Fishery Management Councils in development and implementation of fishery management plans consistant with the MFCMA National Standards guidelines (as revised).

B. METHODOLOGY/APPROACH: This program includes fishery monitoring, economic analysis, and information network planning and implementation to complete analytic and documentation requirements of the MFCMA, Regulatory Flexibility Act, Paperwork Reduction Act, E.O. 12291, and the National Environmental Policy Act. Staff support is provided to Regional Fishery Management Councils in coordination with other NMFS units, NOAA General Counsel, NOAA Enforcement, and State agencies to ensure that management programs are comprehensive and effectively monitored through data collection and research activities. Grants-in-aid are awarded to State and Territory agencies to support data collection and anaylsis on fisheries of mutual interest. Staff assist in identifying high priority research needed for FMP evaluation and improvements in the future. This program also provides support in development of NOAA Fisheries policies under the MFCMA, and provides assistance to other Regional units in rulemaking proceedings when necessary.

C. PRODUCT/SERVICES: Main products are Decision Memoranda and associated documents (Regulatory Analyses, Environmental Impact Statements, Regulations) to support approval and implementation FMPs, annual reports and data on FMP fisheries, Economic Status Reports on certain regional fisheries, MFCMA policy analyses, and fishery catch and effort reports. Services include participation on fishery management plan teams, contract monitor services, and administrative support to Councils.

D. CLIENTS: Principal clients are the Pacific and Western Pacific Fishery Management Councils, State and Territory agencies, commercial and recreational fishing interests, and other organizations.

E. CONTRACTS: Contracts are let to assist State and Territory agencies where necessary to carry out data collection and analysis tasks needed to carry out FMPs and to complete special research and analysis projects under the fishery information network to generate information needed for management decisions.

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
McInnis, Rodney R.	Fishery Program Administr.	GM/14/00	25	8L2A6CFM
Fougner, Svein	Fishery Program Administr.	GM/13/00	100	"
Silverthorne, G. Wesley	Industry Economist	GM/13/00	100	"
Morgan, James J.	Fishery Biologist Mgmt.	GS/12/02	100	"
Katekaru, Alvin Z.	Resource Management Spec.	GS/12/01	100	"
Korson, Charles S.	Industry Economist	GS/11/06	100	"
Vacant	Resource Management Spec.	GS/07/01	100	"
Hiu, Gail K.	Secretary Typing	GS/06/05	75	"
Vacant	Clerk Typing	GS/04/06	100	"

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MILESTONE ARRAY

				FY 90				91		92	
TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	1	2	3	4	1	2	1	2
8L2A6CFM	M	1	Complete documentation for 90-day extension of emergency rule to allow Northern Anchovy reduction fishery	N							
	M	2	Complete documentation for NMFS action on requests for concurrence with council findings on consistency with National Standards Guidelines	D							
	E	3	Meet with State and Territory fishery staff in Western Pacific to convey DOC/NCASC grant administration requirements	D							
	E	4	Meet with CFG staff to convey DOC/NCASC grant administration requirements		J						
	M	5	Publish regulations to implement the annual groundfish harvest strategy of the Pacific Council (cooperate with F/NWR and F/EN)		J			J		J	
	M	6	Complete SWR inputs to annual report under Crustaceans FMP		F						
	M	7	Complete evaluation of first year of Western Pacific Bottomfish Limited Entry Program			A					
	M	8	Complete documentation for Amendment of Northern Anchovy FMP			A					
	M	9	Complete review of PFMC annual salmon report and recommend SWR position on management measures for coming season			M					
	E	10	Complete annual review of the PacFIN & CalFIN programs with the SWC			M					
	E	11	Allocate economic research reserve fund with SWC			M					

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L2A6CFM	M	12	Complete SWR inputs to annual report under Bottomfish FMP			J					
	M	13	Complete SWR inputs to annual report under Pelagics FMP			J					
	M	14	Distribute preliminary annual report on West Coast Groundfish Fishery				J				
	M	15	Present annual anchovy fishery OY and quota determinations to PFMC				J				
	M	16	With SWC and CFG, distribute annual report on coastal pelagic fisheries for Pacific Council consideration				J				
	E	17	Distribute biennial report on Dungeness Crab fishery				S				
	E	18	Distribute annual report on pink shrimp fishery				S				
	E	19	Complete review of the WPFMC budget proposal for the following two years and submit recommendations to NMFS headquarters				A		A		A
	E	20	Complete annual update of PacFIN Research Data Base				S				
	E	21	In cooperation with SWC, WPFMC, and HDAR, monitor progress of non-commercial fisheries survey and recommend follow-up as needed	-	-	-	-	-	-	-	-
	A	22	Coordinate Terminal Island staff reviews and associated action on WPFMC FMP changes in conformance with regionalization of FMPs	-	-	-	-	-	-	-	-

FORM 1

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RESOURCE SUMMARY					
TITLE ->	Tuna Porpoise				
TASK NAMES ->	Management	Observers			\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L2B2TMP	8L2B2TBT			
DIRECT LABOR	235.7	520.2			755.9
PERS. BENEFITS	38.9	41.1			80.0
TRAVEL	3.7	41.2			44.9
TRANSPORTATION	2.3	7.3			9.6
RENT, COMM., UTIL.	40.7	--			40.7
PRINT/REPROD.	1.2	--			1.2
CONTRACTS	5.6	114.3			119.9
SUPPLIES/MATERIAL	2.2	--			2.2
EQUIPMENT	--	--			--
GRANTS	--	--			--
TOTALS ->	330.3	724.1			1054.4
FTE (FTP)	8.25	21.25			29.5
FTE (OTFTP)					

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE EC Fullerton

HQ CONTACT

NOAA FISHERIES
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Tuna/Porpoise Management	San Diego	29.5	$1054.4	N. Mendes	Protected Species

A. PROBLEM STATEMENT/OBJECTIVE: The Tuna/Porpoise Management Program fulfills requirements of the Marine Mammal Protection Act concerning porpoise taken in tuna purse seining operations.

B. METHODOLOGY/APPROACH: Biological Technicians collect scientific data while aboard U.S. tuna purse seine vessels in the eastern tropical Pacific ocean. These data are used to monitor the number of porpoise killed compared to the stock quotas now in the MMPA, to assess compliance with porpoise safety gear requirements and rescue procedures, and to furnish researchers with information and biological specimens for life history and population studies. An experienced staff at San Diego recruits and trains biologists to serve as observers. The staff also conducts workshops for vessel operators to inform them of the Federal regulations related to porpoise protection and assists vessel owners in meeting the porpoise safety gear requirements by performing inspections of vessels and gear at the dock. NMFS funds and expertise are provided to the Inter-American Tropical Tuna Commission's tuna/dolphin investigations to aid in achieving an international approach to porpoise protection.

C. PRODUCT/SERVICES: Products from this program include biweekly reports on the porpoise mortality in the U.S. fleet, booklets and other printed and filmed information on porpoise safety techniques for tuna purse seining, scientific observations and biological specimens collected on tuna vessels. Services include training for vessel operators in the requirements of Federal regulations regarding marine mammals and techniques for reducing porpoise mortalities, advice to vessel operators regarding required porpoise safety gear, and information to the interested public on porpoise and the tuna fishery.

D. CLIENTS: Tuna vessel owners and operators, environmental and animal welfare interest groups, and marine mammal researchers use the products and services of this program.

E. CONTRACTS: A contract is entered into with each vessel that carries an observer to provide reimbursement for the insurance, living and other expenses related to that observer.

CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
McInnis, Rodney R.	Fishery Program Administr.	GM/14/00	25	8L2B2TMP
Mendes, Norman A.	Fishery Biol. Mgmt. Supv.	GM/13/00	100	"
Butler, Richard	Fishery Biol. Mgmt. Supv.	GS/11/04	100	"
Young, John A.	Fishery Biol. Mgmt.	GS/11/06	100	"
Meyer, Ben S.	Fishery Biol. Mgmt. Supv.	GS/09/03	100	"
La Civita, Peter E.	Fishery Biol. Mgmt.	GS/07/04	100	"
Cline, Marc	Fishery Biol. Mgmt.	GS/07/01	100	"
O'Brien, Theresa C.	Procurement & Operatn Asst.	GS/06/08	100	"
Begley, Frances R.	Secretary Typing	GS/05/10	100	"
Observers	Biological Technicians	GS/05/01-05	100	8L2B2TBT

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MILESTONE ARRAY

TASK #	MAE	SEQ	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L2B2TMP 8L2B2TBT	E	1	Report to the Regional Director the sundown set performance of tuna vessel operators holding exemptions and recommend renewal action.	D							
	M	2	Report to the Regional Director on the options for the content, cost, and timetable for updating the tuna purse seining video.	D							
	M	3	Implement the tuna vessel operator marine mammal safety performance system.		J						
	M	4	Report the total porpoise mortality in the eastern tropical Pacific U.S. tuna fishery during 1989.		J						
	M	5	Submit a final rule restricting use of explosives by tuna fisherme when setting on dolphins by February 15, 1989		F						
	A	6	Inspect porpoise safety gear and advise managing owners of needed repairs and replacement.	-	-	-	-	-	-	-	-
	A	7	Recruit, train, and place porpoise observers aboard certificated vessels to record porpoise kill related to tuna fishing.	-	-	-	-	-	-	-	-
	A	8	Estimate and report porpoise mortality biweekly to ensure the stock and aggregate quotas are not exceeded during a calendar year.	-	-	-	-	-	-	-	-
	A	9	Issue vessel and operator certificates of inclusion to tuna purse seiners.	-	-	-	-	-	-	-	-

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	August 1989	
FMC	REF. NO.	PAGE
SWR	103	1 OF 6

RESOURCE SUMMARY					
TITLE ->	Habitat Conservation				
TASK NAMES ->	So. Calif.	No. Calif.	West. Pac.		V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L2C14HC	8L2C14NC	8L2C14WP		
DIRECT LABOR	104.6	168.4	43.9		316.9
PERS. BENEFITS	16.9	27.3	16.5		60.7
TRAVEL	8.3	4.7	3.6		16.6
TRANSPORTATION	3.7	11.4	--		15.1
RENT,COMM.,UTIL.	14.7	19.5	--		34.2
PRINT/REPROD.	--	--	--		--
CONTRACTS	8.2	0.6	--		8.8
SUPPLIES/MATERIAL	1.4	0.7	--		2.1
EQUIPMENT	--	--	--		--
GRANTS	--	--	--		--
TOTALS ->	157.8	232.6	64.0		454.4
FTE (FTP)	2.25	4.0	1.0		7.25
FTE (OTFTP)		1.4			1.4

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NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
HABITAT CONSERVATION	Terminal Is.	8.65	454.4	J. Slawson	Habitat Conservation

A. PROBLEM STATEMENT/OBJECTIVE: The SWR Habitat Conservation program recommends measures to minimize or mitigate the negative impacts of Federally conducted, funded, or permitted activities on marine, estuarine, and anadromous fish stocks of commercial and/or recreational importance.

B. METHODOLOGY/APPROACH: The program staff actively coordinates with responsible State, Federal, and Western Pacific Island permitting agencies, applicants, and Fisheries Management Councils on water policy issues, OCS leasing and development, port master planning, sanctuaries, ocean dumping, and COE permits (Sect. 10/404). The staff is responsible for seeing that these projects do not reduce the value of habitat for important marine, estuarine, and anadromous species in California and the Western Pacific. The approach adopted is 1) to inform permit applicants early in the planning stages to include project design conditions which will minimize habitat impacts mitigate unavoidable habitat loss. This involvement is the design phase saves time and money for the applicant.

C. PRODUCT/SERVICES: This program maintains the productivity of important fishery resources by ensuring that the impacts of man's activities on the habitat for those species are minimized. Where adverse impacts are unavoidable, methods of compensating for the loss of habitat value are developed and implemented. The program staff works closely with development entities to ensure that project delays and costs are kept to a minimum while resource benefits are maximized.

D. CLIENTS: Clients include private, local, State, and Federal interests involved in developing coastal, anadromous, and estuarine areas, or in issuing permits for development. Program constituency ranges from environmental and rec/fish interests, to the commercial fishing industry.

E. CONTRACTS:
1) Sacramento River winter-run salmon habitat evaluation model - - (out for bid)
2) Egg temperature tolerance, winter-run chinook - - (Fish and Wildlife Service)

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. McInnis, Rodney R.	Fishery Program Administr.	GM/14/00	25	8L2C14HC
2. Slawson, James J.	Fishery Biol. Gen. Supv.	GM/13/00	100	8L2C14HC
3. Hoffman, Robert S.	Fishery Biologist Gen.	GS/12/06	100	8L2C14HC
4. Naughton, John J.	Fishery Biologist Mgmt.	GS/12/08	100	8L2C14WP
5. Bybee, James R.	Fishery Biologist Gen.	GS/12/08	100	8L2C14NC
6. Wolcott, Roger S.C. Jr.	Fishery Biologist Gen.	GS/12/07	100	8L2C14NC
7. Windham, T. Dianne	Fishery Biologist Mgmt.	GS/09/02	60	8L2C14NC
8. Vacant	Fishery Biologist Gen.	GS/07/01	100	8L2C14NC
9. Miller, Sandra J.	Secretary	GS/05/10	80	8L2C14NC

MILESTONE ARRAY

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TASK #	MAE	SEQ	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L2C14HC	M	1	Complete the final second year report on the relative fisheries value of natural vs. transplanted eelgrass beds in Mission Bay, CA.		F						
	M	2	Complete and distribute a Coastal/Estuarine Habitat Report reflecting major results of work in calendar year 1989.		M						
	E	3	Develop a summary paper documenting the history of the Bio-mitigation Team process leading to the Final EIS/EIR to restore Batiquitos Lagoon.				S				
	A	4	Continue close coordination with fellow resource agencies in monitoring the progress of the Port of Long Beach S-K project to document the fishery value of a California coastal artificial reef.	-	-	-	-				
	A	5	Coordinate with GC in assisting NOS in the design of restoration alternatives for the Montrose Superfund Damage Assessment.	-	-	-	-	-	-	-	-
	A	6	Review and comment on potential impacts of actions under permit application to the Corps of Engineers, FERC, and others.	-	-	-	-	-	-	-	-
	A	7	Coordinate with the Pacific Fisheries Management Council on habitat issues of major significance, which may impact managed species.	-	-	-	-	-	-	-	-
8L2C14NC	M	8	Develop an issue paper evaluating the critical water policy and habitat concerns, upon which efforts of the fishery engineer will be concentrated in the next few years.		J						
	M	9	Complete the Northern Area submission to the Regional Coastal/Estuarine Annual Report for calendar year 1989. (March 15)		M						
	M	10	Complete and distribute the Anadromous Habitat Accomplishments Report reflecting major results of the Region's anadromous fish habitat work during calendar year 1989.		M						

MILESTONE ARRAY

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TASK #	SEQ	MAE	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 90				91		92	
				1	2	3	4	1	2	1	2
	E	11	Document the results of the annual coordination meetings with the Tiburon Lab, to identify management research needs in the Bay area.				J				
	A	12	Review and comment on the potential impacts of actions under permit application to the Corps, FERC, and others.	-	-	-	-	-	-	-	-
	A	13	Analyze and report to the Regional Director the potential impacts of water development and allocation within California, on fisheries habitats of significance.	-	-	-	-	-	-	-	-
	A	14	Coordinate with the Pacific Fisheries Management Council on Habitat issues of major significance, which may impact managed species.	-	-	-	-	-	-	-	-
8L2C14WP	E	15	Complete a joint issue paper with Protected Species staff, assessing the need for an additional biologist, or Corps Officer, to handle habitat and protected species matters in the western Pacific	D							
	M	16	Complete a summary report documenting the major results of habitat work in the western Pacific, for inclusion in the Annual Region Coastal/Estuarine Accomplishments Report. (March 15)		M						
	M	17	Complete a final report documenting the effectiveness of a series of artificial reefs placed in Maunalua Bay, Oahu, to enhance recruitment of juvenile reef fish.				J				
	A	18	Coordinate with Pacific Island CZM Program staffs to encourage more direct involvement with the Western Pacific Fishery Management Council in conserving habitats.	-	-	-	-	-	-	-	-
	A	19	Review and comment on the potential impacts of actions under permit application to the Corps, FERC, EPA, etc.	-	-	-	-	-	-	-	-
	A	20	Coordinate with the Western Pacific Council on habitat issues of major significance which may impact managed species.	-	-	-	-	-	-	-	-

MILESTONE ARRAY

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TASK #	MAE	SEQ	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
	A	21	Participate as DOC/NOAA representative to Region IX Regional Response Team for oil and hazardous substance spills in the western Pacific.	-	-	-	-	-	-	-	-

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE ->	PROTECTED SPECIES MANAGEMENT				
TASK NAMES ->	PS CA	PS WP			V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L2B3UCA	8L2B3UWP			
DIRECT LABOR	121.5	59.2			180.7
PERS. BENEFITS	19.7	25.9			45.6
TRAVEL	4.0	4.0			8.0
TRANSPORTATION	0.2	0.0			0.2
RENT, COMM., UTIL.	23.5	0.0			23.5
PRINT/REPROD.	0.3	0.1			0.4
CONTRACTS	65.0	0.0			65.0
SUPPLIES/MATERIAL	1.0	0.2			1.2
EQUIPMENT	0.0	0.0			0.0
GRANTS	0.0	0.0			0.0
TOTALS ->	235.2	89.4			324.6
FTE (FTP)	4.25	1.25			5.5
FTE (OTFTP)		0.8			0.8

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Protected Species Mgmt.	Terminal Is.	6.3	324.6	J. Lecky	Protected Species

A. PROBLEM STATEMENT/OBJECTIVE: The protected species program is responsible for monitoring the status of protected species (marine mammals and populations listed as threatened and endangered) and ensuring that human activities are conducted in a manner that will not disadvantage stocks or degrade their habitat.

B. METHODOLOGY/APPROACH: Program staff review and comment on proposed activities which may affect protected species. Recommendations are made to permitting agencies to mitigate adverse effects of authorized activities. Vehicles for interagency coordination are the permit processes of the MMPA and the ESA, the Section 7 consultation process of the ESA, recovery planning pursuant to the ESA, the NEPA process, and the FWCA. Commercial fisheries are monitored to ensure incidental marine mammal mortality remains at levels sustainable by the populations. When necessary regulations are promulgated to mitigate adverse effects of human activities.

C. PRODUCTS/SERVICES: This program provides a service to governmental agencies and the public in determining strategies for conserving populations of protected species and mitigating adverse effects of certain human activities. These strategies are defined in recommendations to permitting agencies, special reports, Biological Opinions, Recovery Plans, and policy papers as necessary. The program also serves the commercial fishing industry by administering the industry exception to the moratorium on the taking of marine mammals. The program also administers marine mammal stranding networks for rehabilitating sick animals and collecting scientific data.

D. CLIENTS: Federal and state agencies are the primary users of information provided by this program. These include MMS, COE, Regional Fishery Management Councils, state resource agnecies, and local governments. Staff is frequently contacted by the public, educational institutions, and commercial fishermen for information on protected species.

E. CONTRACTS: An ongoing cooperative agreement exists with the State of California for the monitoring of certain marine mammal populations and estimating mortality incidental to certain commercial fisheries. Periodic small contracts are let to consultants, universities, or other agencies to provide specific information for management of protected species. During FY 90-92 a contract will likely be let for development and operation of a coastal marine mammal observer program to document the level of marine mammal mortality in coastal gillnet fisheries.

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
McInnis, Rodney R.	Fishery Program Administr.	GM/14/00	25	8L2B3UCA
Lecky, James H.	Wildlife Biol Mgmt. Supv.	GM/13/00	100	8L2B3UCA
Nitta, Eugene T.	Fishery Biologist Mgmt.	GS/12/07	100	8L2B3UWP
Hanson, Bradley	Wildlife Biologist	GS/09/01	100	8L2B3UCA
Cordaro, Joseph G.	Fishery Biologist Gen.	GS/07/01	100	8L2B3UCA
Drinin, Debra L.	Secretary Typing	GS/06/03	100	8L2B3UCA
Hiu, Gail K.	Secretary Typing	GS/06/05	25	8L2B3UWP
Matsukawa, Georgia F.	Clerk Typing	GS/04/05	80	8L2B3UWP

MILESTONE ARRAY

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TASK #	MAE	SEQ	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L2B3UCA	M	1	Submit for publication in the FR Final Rule on Importation of Yellowfin Tuna	O							
	M	2	Submit for publication in the FR Final Rule on Skipper Performance and sundown set prohibition.	N							
	M	3	Submit for publication a FR notice announcing the acceptable level of observer coverage for foreign harvesting nations by November 1.	N							
	M	4	Implement coastal marine mammal observer program		J						
	E	5	Initiate turtle data collection in tuna/porpoise observer program		J						
	E	6	Submit proposal to F/PR for regulating whale watching in California		J						
	M	7	Complete listing of winter-run chinook as a threatened species			A					
	E	8	Renew CDFG cooperative agreement for monitoring selected coastal marine mammal stocks			A					
	M	9	Complete SWR/SWC submission to Annual Report to Congress on the administration of the Marine Mammal Protection Act			A					
	M	10	Complete status rewiew for Guadalupe fur seal			J					
	M	11	Complete status review for Totoaba			J					
	M	12	Complete recovery plan for winter-run chinook salmon				S				

MILESTONE ARRAY

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TASK #	MAE	SEQ	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L2B3UCA	M	13	Report to RD findings on comparability of foreign tuna/porpoise programs with U.S. program based on submissions received by July 31				S				
	A	14	Participate in the development and implementation of humpback whale recovery plan	-	-	-	-				
	A	15	Conduct interagency consultations on Federal projects under Section 7 of the ESA	-	-	-	-				
	A	16	Review and Comment on applications for research and public display permits	-	-	-	-				
	A	17	Issue marine mammal exemptions to qualified commercial fishermen	-	-	-	-				
	A	18	Construct and maintain data base for reports submitted by fishermen under the Marine Mammal Exemption Program	-	-	-	-				
	A	19	Coordinate California marine mammal stranding network and maintain the network data base	-	-	-	-				
	A	20	Coordinate with State and Federal agencies to ensure that their actions do not disadvantage marine mammal stocks	-	-	-	-				
	M	21	Complete joint issue paper with habitat program assessing the need for a resource specialist in Hawaii	D							
	M	22	Submit final regulations for whale watching in Hawaii		J						
	E	23	Prepare video presentation of protected species briefing for bottomfish fishermen fishing in the Northwest Hawaiian Islands		F						
	M	24	Complete status review for the Hawaiian monk seal			J					

MILESTONE ARRAY

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TASK #	MAE	SEQ	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L2B3UWP	M	25	Complete status review for Pacific sea turtles			J					
	M	26	Assume operation on the Kure Monk Seal headstart program contingent on receipt of additional funding						X		
	M	27	Complete assessment of sea turtle distribution and habitat use in Mariana Archipelago								X
	A	28	Participate in the review and updating of the Hawaiian monk seal recovery plan	-	-	-	-				
	A	29	Implement the Hawaiian sea turtle recovery plan	-	-	-	-				
	A	30	Participate in the implementation of the humpback whale recovery plan	-	-	-	-				
	A	31	Conduct interagency consultations on Federal projects under Section 7 of the ESA	-	-	-	-				
	A	32	Coordinate with State and Federal agencies to ensure that their actions do not disadvantage marine mammal stocks, with emphasis on the states Ocean Recreation Management Plan	-	-	-	-				
	A	33	Review and comment on applications for research and public display permits	-	-	-	-				

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE ->	Industry Analysis & Information				
TASK NAMES ->					\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1B2ATA				
DIRECT LABOR	100.3				100.3
PERS. BENEFITS	20.7				20.7
TRAVEL	24.3				24.3
TRANSPORTATION	1.2				1.2
RENT, COMM., UTIL.	15.6				15.6
PRINT/REPROD.	0				0
CONTRACTS	3.6				3.6
SUPPLIES/MATERIAL	1.0				1.0
EQUIPMENT	1.0				1.0
GRANTS	0				0
TOTALS ->	167.7				167.7
FTE (FTP)	3.0				3.0
FTE (OTFTP)	0				0

VESSELS # SEA DAYS ALLOC.	
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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Industry Analysis & Info.	Term. Is.	3.0	167.7	Dentler, John	Fisheries Industry & Info.

A. PROBLEM STATEMENT/OBJECTIVE: Program objectives are to provide policy, guidance, supervision and direction to the Trade Analysis, South Pacific Tuna Treaty, and Statistics and Market News Programs. In addition, to facilitate development of new fisheries and find alternatives to present fishing gear. Program elements also include the Saltonstall-Kennedy Grant Program which is directed at overcoming problems and impediments which prevent full and wise utilization of fishery resources.

B. METHODOLOGY/APPROACH: Division supervision and guidance is delivered through standard management techniques and procedures. Development of alternative fisheries and fishing gear is achieved through direct contact with the fishing and seafood industry and through field testing of gear-effectiveness and efficiency. The Saltonstall-Kennedy grant program is administered through consultation with NMFS and other government agencies and via contact with the fishing industry. Cooperative Agreements are awarded for projectes deemed to address NMFS and industry needs.

C. PRODUCT/SERVICES: Products and Services range from reports on results of fishery development activities, final Saltonstall-Kennedy Grant reports and various memorandum and technical reports which are distributed to the fishing industry and government agencies. Fishermen are also kept apprised of results through direct contact with industry.

D. CLIENTS: Clients are participants in the fishing and seafood industry in the Southwest Region as well as NMFS and other government representatives.

E. CONTRACTS: None at this time.

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Kato, Susumu	Fishery Research Biologist	GM/14/00	100	8L1B2ATA
Vacant	Fishery Development Spec.	GS/07/01	100	8L1B2ATA
Culver, Patricia	Division Secretary	GS/04/01	100	8L1B2ATA

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1B2ATA	M	1	Complete FY90 S-K Grant negotiations for those projects approved for funding by the Assistant Administrator. (November 1989).	N							
"	E	2	Solicit comments for regional S-K Grant priorities from industry and scientific community. (January 1989).		J						
"	M	3	Develop and forward FY90 S-K Grant priorities for mainland and Pacific island areas to Regional Director for approval. (Feb. 1990)		F						
"	M	4	Approve and distribute evaluation of two 1987 S-K projects--alternatives to gill netting for white croaker and alternative gear development. (January 1990)		J						
"	E	5	Solicit proposals from SWR constituents for S-K program. (April 1990).			A					
"	E	6	Receive proposals relating to SWR S-K program. (May 1989).			M					
"	E	7	Complete scientific and technical reviews of SWR S-K proposals. (July 1990).				J				
"	M	8	Present to Regional Director recommended FY90 package of S-K Grant projects with recommended modifications, funding amounts and recommended Program Officer. (August 1990).				A				
"	M	9	Complete evaluation of final report on S-K Grant Project on Proposition 65 compliance. (September 1990).				S				
"	A	10	Coordinate with consortium of representatives from CA Sea Grant, Marine Advisory personnel and CDFG to plan to update and publish "California's Marine Resources and their Utilization".	X	X						

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1B2ATA	M	11	Complete site inspection, evaluation, review, and final report on all active or incomplete S-K Grant awards in the Pacific Islands. (June 1990)								
"	A	12	Complete outline and draft report on sea urchins and other assigned underutilized species to be included in "California Marine Resources and their Utilization". (Feb. 1990).		F						
"	M	13	Complete section of "California's Marine Resources and their Utilization" dealing with sea urchins and possibly other underutilized resources. (June 1990).			J					
"	A	14	Investigate and coordinate with S-K Grant Recipient hagfish technology, methods and potential.	X	X						
"	E	15	Complete outline and draft report on hagfish fishing techniques, handling methods, processing methods and preliminary fishing potential and submit to Chief. (June 1990).			J					
"	M	16	Submit to RD for approval, final report on life history and potential of hagfish fishery. (June 1990).			J					
"	A	17	Keep Regional S-K Grant Program Officers aware of special problems and duties regarding 1988 and 1989 awards.	X	X	X	X				
"	A	18	Distribute S-K final reports as they become available.	X	X	X	X				
"	A	19	Investigate new alternative fisheries, specifically box-crab and sanddab.	X	X	X	X				
"	A	20	Provide assistance to constituents in identifying alternative fishery resources.	X	X	X	X				

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	August 1989	
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SWR	202	1 OF 4

RESOURCE SUMMARY

TITLE -> Tuna Fishery Monitoring Program

TASK NAMES ->					\/
OBJECT CLASS	TASK #1 8L1B2CTT	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	119.9				119.9
PERS. BENEFITS	30.5				30.5
TRAVEL	30.0				30.0
TRANSPORTATION	2.3				2.3
RENT, COMM., UTIL.	8.5				8.5
PRINT/REPROD.	10.0				10.0
CONTRACTS	31.5				31.5
SUPPLIES/MATERIAL	2.5				2.5
EQUIPMENT	14.8				14.8
GRANTS	0				0
TOTALS ->	250.0				250.0
FTE (FTP)	4.75				4.75
FTE (OTFTP)					

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Tuna Fishery Mont. Prgm.	Am. Samoa	4.75	250.0	Yamasaki, G.	Fishery Industry Information

A. PROBLEM STATEMENT/OBJECTIVE: Program objective is to fulfill U.S. obligations pursuant to the South Pacific Tuna Treaty (SPTT) and in so doing, ensure that licensed tuna seiner owners and operators understand and comply with the rules and regulations of the SPTT.

B. METHODOLOGY/APPROACH: Staff is based in American Samoa where Carch Report Forms and Unloading Logbooks are collected and inspected for accuracy and completeness, catch is sampled for length, frequency and species composition, and data is forwarded to the Southwest Fisheries Center. Staff also assists in the placement and orientation of Forum Fishery Agency observers aboard U.S. vessels and otherwise solve problems that arrise. Staff in Guam also assists with the placement of FFA observers on vessels departing from Guam and collects and inspects reporting forms required by the Treaty. Staff in Terminal Island maintains high level contacts with FFA personnel, privides overall policy guidance and is responsible for supervision of field staff.

C. PRODUCT/SERVICES: Products and services have included an instructional video tape describing to licensed tuna vessel owners and operators the basis, obligations, duties, rules and regulations of the Treaty. In addition, a guidebook entitled "Purse Seine Fishermen's Guide to the South Pacific Tuna Treaty" was also produced and distributed to those vessel owners and operators licensed to fish under the Treaty. The guidebook also describes the requirements of the Treaty.

D. CLIENTS: Those vessel owners and operators licensed to fish under the SPTT -- currently some 34 vessels. In addition, staff also supports information and data needs of NMFS headquarters and the U.S. Department of State.

E. CONTRACTS: None at this time.

FORM 3 NOAA FISHERIES

CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Dentler, John L.	Chief, Trade & Industry Services	GM/14/00	50	8L1B2CTT
Yamasaki, Gordon S.	Fishery Biologist - Program Leader	GS/09/02	100	8L1B2CTT
Mata'utia, Paulo	Fishery Bio-Technician	GS/04/02	100	8L1B2CTT
Therry, Dennis	Fishery Bio-Technician	GS/05/02	100	8L1B2CTT
Cozuer, Joseph	Special Agent	GS/11/06	25	8L1B2CTT
Caracoza, Julie	Clerk Typist	GS/04/02	100	8L1B2CTT

FMC	REF. NO.	PAGE
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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1B2CTT	A	1	Collect and collate information on tuna landings at Pago Pago, and on transhipments and report to SWR.	X	X	X	X				
"	A	2	On bimonthly basis, report on vessel ETA/ETDs, fishing activity and staff accomplishments to the SWR.	X	X	X	X				
"	A	3	Collect Catch Report Forms and unloading logbooks, inspect for completeness and accuracy and forward to FFA.	X	X	X	X				
"	A	4	Issue monthly and quarterly reports on landing summaries and other pertinent information to SWC and SWR.	X	X	X	X				
"	M	5	Complete assessment of U.S. performances under the South Pacific Tuna Treaty		M						
"	A	6	Represent the "Pacific Island Network" (PIN) in American Samoa and assist government officials in identifying problems/ opportunities that might be addressed through existing USG programs.	X	X	X	X	X	X		
"	M	7	Submit to chief list of potential prioritized projects in American Samoa that might be assisted by or funded through NOAA entities. NOAA entities. (April 1990).			A					

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	August 1989	
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RESOURCE SUMMARY

TITLE ->	Statistics & Market News Program				
TASK NAMES ->	Statistics	Market News			V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L2A4NMA	8L2A3NMN			
DIRECT LABOR	60.9	14.2			75.1
PERS. BENEFITS	9.5	2.3			11.8
TRAVEL	3.4	0.0			3.4
TRANSPORTATION	0.2	0.0			0.2
RENT,COMM.,UTIL.	14.9	9.8			24.7
PRINT/REPROD.	0.0	0.0			0.0
CONTRACTS	7.0	3.4			10.4
SUPPLIES/MATERIAL	0.2	1.0			1.2
EQUIPMENT	0.0	0.0			0.0
GRANTS	0.0	0.0			0.0
TOTALS ->	96.1	30.7			126.8
FTE (FTP)	2.0	.75			2.75
FTE (OTFTP)					

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Statistics & Mkt. News Prg.	Term. Is.	2.	126.8	Donley, P.	Fisheries Mgmt. Program

A. PROBLEM STATEMENT/OBJECTIVE: Program objectives are to provide NOAA Fisheries, other government agencies and private industry with current information and statistics on the status of regional fisheries and to keep government and industry apprised of the status of regional and national seafood markets through the collection, assembly, analysis and dissemination of regional commercial fishery statistics and market information.

B. METHODOLOGY/APPROACH: Commercial fishery statistics and market information concerning Southwest Region fisheries is obtained through the voluntary cooperation of industry constituents and local, state, federal and international government agencies. Formal and informal surveys are conducted in person, on the telephone, through the mails and by access to computer data files.

C. PRODUCT/SERVICES: Products include monthly and annual data sets provided to NOAA Fisheries Central Office for use in national publications, reports compiled and published locally as Administrative or Technical Reports, Tuna Newsletter and the "Terminal Island Fishery Market News Report" published three times per week and mailed to approximately 400 subscribers. Direct services are provided to government and seafood industry constituents in the form of data sets and reports that answer specific requests.

D. CLIENTS: Principal clients are regional and national offices of NOAA Fisheries and other government agencies; such as, USDA, U.S. Customs Service, International Trade Commission and Food and Agricultural Organization of the UN. Industry constituents include processors, wholesalers, importers, exporters, fishing companies, retailers and industry organizations; such as, the National Fisheries Institute, California Fisheries and Seafood Institute, West Coast Fisheries Development Foundation, etc.

E. CONTRACTS: None at this time.

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Donley, Patrica J.	Fishery Reporting Spec. - Program Leader	GS/12/05	100	8L2A4NMA
Thabault, Michael G.	Fishery Reporting Spec.	GS/07/01	100	8L2A4NMA
Deering, Richard A.	Market News Clerk	GS/05/03	75	8L2A3NMN

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L2A4NMA	E	1	Complete draft of 1989 edition of "Seafood Dealers of the Southwest Region" and submit to SWR editorial board. (Oct. 1989).	O							
"	M	2	Publish 1989 edition of "Seafood Dealers of the Southwest Region". (November 1989).	N							
"	M	3	Evaluate final report and recommend method to RD distribution for S-K project report 89-ABH-00022, Production of Booklet on Commercial Fishing Vessel Safety in Vietnamese. (March 1990).		M						
"	E	4	Prepare address lists and labels for 1989 wholesaler/processor survey. (December 1989).	D							
"	E	5	Complete mailing of wholesaler/processor survey. (Jan. 1990).		J						
"	E	6	Submit California and Hawaii preliminary 1989 landings and value data through chief to F/RE1. (March 1990).		M						
"	M	7	Complete compilation and editing of California landings major ports tables, use tables, and monthly breakdowns and submit to RD and F/RE1. (April 1990).		A						
"	M	8	Complete annual tuna landings and value tables and submit to RD and F/RE1. (April 1990).		A						
"	A	9	Edit incoming wholesaler/processor survey forms. (Jan-June, 1990).		X	X					
"	M	10	Complete 1989 wholesaler/processor survey and transmit through RD to Washington Office. (June 1990).			J					

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	2	3	4	91 1	2	92 1	2
8L2A4NMA	M	11	Submit for approval California and Hawaii final 1989 landings and value data for inclusion in Fisheries of the U.S. (Sept. 1990)				S				
"	A	12	Conduct monthly Cold Storage Warehouse survey and transmit data to F/RE1 monthly.	X	X	X	X	X	X		
"	A	13	Conduct monthly Meal & Oil Production survey and transmit data to F/RE1 monthly.	X	X	X	X	X	X		

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L2A3NMN	E	1	Complete preparations to incorporate approved changes in Market News publication. (October 1989)	O							
"	M	2	Implement changes and and begin publishing Southwest Region Fishery Market News Report. (October 1989).	O							
"	A	3	Publish SWR Market News Report twice per week.	X	X	X	X				
"	E	4	Complete compilation of 1989 California and Hawaii import statistics year-end summary and advertise availability. (Feb. 1990)		F						
"	E	5	Complete annual circularization of free mailing list. (Feb. 1990).		F						

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY

TITLE ->	Trade Analysis Program				
TASK NAMES ->					V
OBJECT CLASS	TASK #1 8L3B2LTA	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	91.1				91.1
PERS. BENEFITS	14.8				14.8
TRAVEL	4.6				4.6
TRANSPORTATION	0.1				0.1
RENT,COMM.,UTIL.	11.9				11.9
PRINT/REPROD.	0.0				0.0
CONTRACTS	188.4				188.4
SUPPLIES/MATERIAL	5.0				5.0
EQUIPMENT	0.0				0.0
GRANTS					
TOTALS ->	315.9				315.9
FTE (FTP)	2.5				2.5
FTE (OTFTP)					

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Trade Analysis Program	Term. Is.	2.5	315.9	Sonu, S.C.	Fisheries Development Program

A. PROBLEM STATEMENT/OBJECTIVE: Program objectives are: 1) To identify tariff and non-tariff trade barriers which act to constrain exports of regional seafood exports: 2) To provide information and analyses to government and industry concerning export trade requirements, market conditions, technology transfer and new product development; and 3) To provide information to the national office in support of trade negotiations.

B. METHODOLOGY/APPROACH: Information and data on foreign markets and technology are obtained through reviews of Asian trade newspapers and other fishery journals, contact with appropriate consulate offices, trade firms and other fishery-related businesses, both in the United States and abroad. In addition, international organizations such as the FAO are a source of data and information. Analyses are performed on the data and information, and options and recommendations are made.

C. PRODUCT/SERVICES: "Foreign Fishery Information Release," a supplement to "Market News Report" is distributed to exporters and importers of U.S. seafood products and reports current developments in Japanese, Korean and other Asian fisheries which impact or present opportunities to U.S. seafood industry interests. Administrative and Technical Reports and Memorandum also serve to keep industry and government officials apprised of technological and trade developments.

D. CLIENTS: Principal clients are regional and national seafood industry, in particular, exporters of U.S. seafood products. In addition, the program serves NMFS headquarters in support of on-going trade negotiations and analyses.

E. CONTRACTS: None at this time.

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Dentler, John L.	Chief, Trade & Industry Services	GM/14/00	50	8L3B2LTA
Sonu, Sunee C.	Trade Analyst - Program Leader	GM/13/00	100	8L3B2LTA
Phu, Chi H.	Trade Reference Assistanct	GS/06/02	100	8L3B2LTA
VACANT	Statistical Assistant	GS/05/01	100	8L3B2LTA

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L3B2LTA	E	1	Coordinate with other authors the completion of first draft report on world squid trade analysis. (December 1989).	D							
"	M	2	Complete assigned areas of responsibility, coordinate and compile the final report on world squid trade analysis. (Sept. 1990)				S				
"	M	3	Evaluate final report and recommend method of distribution for S-K project 86-ABH-00036, Truth in Seafood Advertising. (Dec. 1990).	D							
"	A	4	Collect, compile and analyze data on trade analysis of sablefish.	X	X						
"	E	5	Complete first draft report on trade analysis of sablefish and and submit to chief. (January 1990).		J						
"	M	6	Complete final report on trade analysis of sablefish and submit to R.D. (April 1990).			A					
"	M	7	Evaluate final report and recommend method of distribution for S-K project 89-AB-H-00021, Utilization of Crustacean Waste. (April 1990).			A					
"	A	8	Collect, compile and analyze data on trade analysis of crayfish.	X	X	X					
"	E	9	Complete first draft on trade analysis of crayfish. (September 1990).				S				
"	M	10	Complete final draft of crayfish trade analysis. (Dec. 1990).					X			
"	A	11	Supply Washington headquarters with trade information in support of GATT negotiations. (October 1989 - September 1990).	X	X	X	X				

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L3B2LTA	A	12	Deliver trade information to constituents through Chief.	X	X	X	X				
"	A	13	Support analyses of U.S. - Japan Fishery Trade. (October 1989 - September 1990).	X	X	X	X				
"	A	14	Support analyses of U.S. - Taiwan Fishery Trade. (October 1989 - September 1990)	X	X	X	X				
"	A	15	Support trade analyses for species of regional significance as needed. (October 1989 - September 1990)	X	X	X	X				
"	A	16	Publish Foreign Fishery Information Report twice monthly. (October 1989 - September 1990)	X	X	X	X				
"	A	17	Supply regional industry with information regarding activities and events that may affect trade in seafood products.	X	X	X	X				

CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY					
TITLE ->	Coastal E. Pacific Pop. Biol. of Fishes				
TASK NAMES ->					V
OBJECT CLASS	TASK #1 8L1A3AA0	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	238.1				238.1
PERS. BENEFITS	38.6				38.6
TRAVEL	6.0				6.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	12.0				12.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	4.0				4.0
SUPPLIES/MATERIAL	21.3				21.3
EQUIPMENT	12.0				12.0
GRANTS	12.0				12.0
TOTALS ->	344.0				344.0
FTE (FTP)	7.0				7.0
FTE (OTFTP)	1.1				1.1

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Pop. Biol. Fish. Coast	La Jolla	8.1	344.0	J.R. Hunter	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This task provides biological data needed for fishery independent biomass assessment of coastal pelagic and groundfishes and data needed for understanding the dynamics of these populations such as estimating the effect of environment and population size and structure on growth, reproduction, mortality, and recruitment. Data are also provided on potential interactions among major fish stocks.

B. METHODOLOGY/APPROACH: Our approach is to emphasize the development of new methodologies and evaluations of methods and assumptions underlying standard techniques while providing data needed for management of the stocks. Methodologies include: (1) Laboratory studies designed to develop accurate tools and procedures for sea assessment of biological rates such as spawning, growth, starvation mortality, predation mortality, and use and allocation of energy, (2) Conduct of annual cruises designed to estimate these rates, and (3) Analysis of these data and, in cooperation with other Coastal Division staff, the development of models that provide estimates of biomass and population dynamics based on the data collected at sea.

C. PRODUCT/SERVICES: We produce two classes of products: (1) Parameter estimates and models used by the Commercial and Recreational Fisheries Research Management program of the Center for biomass estimates and for incorporation in management plans for west coast groundfish and wetfish stocks and (2) Development of new methodologies and concepts used by fishery scientists in other NMFC Centers, state agencies, and fisheries groups world-wide and made available through scientific publication and presentation. For example, this task has played a leading international role in recruitment research and ichthyoplankton biomass assessment.

D. CLIENTS: Models and population assessments produced by the task will be used by various fishery management teams including Fishery Management Plan Teams, the Pacific Management Council, California Department of Fish and Game, and other state management groups.

E. CONTRACTS: Production of histological slides of fish ovaries collected on MNFS surveys ($4K). Private microtechnique vendors are used.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP		% TIME	TASK #
FTE					
1. John R. Hunter	Fishery Biologist (Res.) Adm.	GM	15/00	100%	8L1A3AA0
2. Vacant	Fishery Biologist (Res.)	GS	12/01	100%	8L1A3AA0
3. Carol A. Kimbrell	Fishery Biologist (Res.)	GS	09/07	100%	8L1A3AA0
4. Eric A. Lynn	Fishery Biologist (Res.)	GS	09/06	100%	8L1A3AA0
5. Beverly J. Macewicz	Fishery Biologist (Res.)	GS	09/05	100%	8L1A3AA0
6. Diane E. Foster	Secretary	GS	06/02	100%	8L1A3AA0
7. Larry Robertson	Fishery Biologist (Res.)	GS	05/04	100%	8L1A3AA0
OTHER					
8. Wayne Kicklighter	Biological Aid	GS	05/01	63%	8L1A3AA0
9. Vacant	Biological Aid	GS	04/01	50%	8L1A3AA0

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90 1	2	3	4	91 1	2	92 1	2
8L1A3AAO	E	1	Write technical report on fecundity of Dover sole and sablefish from 88 Miller Freeman and 89 David Starr Jordan surveys	O	-	-	S				
"	E	2	Write technical memoranda on methods for assessment of reproductive state, fecundity, and spawning rate of Dover sole	O	-	-	S				
"	A	3	Create adult fish files from survey, validate data entry, compute depth specific abundance and reproductive activity of key slope species	-	-	-	-	-	-	-	-
"	A	4	Analyze reproduction of shortspine thornyhead	-	-	-	-	-	-	-	-
"	A	5	Conduct experiments designed to promote sexual maturation in Dover sole and sablefish, including monthly administration of hormones using implants	-	-	-	-	-	-	-	-
"	A	6	Carry out collection trips on charter vessel for sablefish and Dover sole in December/January to collect reproductively active fish for the induction of spawning	-	-	-	-	-	-	-	-
"	A	7	Determine effects of predation on fish larvae and subsequent effects on recruitment using immunoassay methodology	-	-	-	-	-	-	-	-
"	A	8	Estimate the effect of euphausiid predation on mortality of larval anchovy	-	-	-	-	-	-	-	-
"	A	9	Estimate spawning rates in albacore tuna using histological methods	O	-	-	-	-	S		

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RESOURCE SUMMARY					
TITLE ->	Fisheries Environmental Investigations				
TASK NAMES ->					V
OBJECT CLASS	TASK #1 8L1A4BEO	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	237.2				237.2
PERS. BENEFITS	38.4				38.4
TRAVEL	4.0				4.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	4.0				4.0
PRINT/REPROD.	2.0				2.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	3.0				3.0
EQUIPMENT	5.0				5.0
GRANTS	0.0				0.0
TOTALS ->	293.6				293.6
FTE (FTP)	5.0				5.0
FTE (OTFTP)	1.0				1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
E. Fullerton

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EXECUTIVE SUMMARY

SWR	304	2 OF 5

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Fisheries & Envir. Invest.	La Jolla	6.0	293.6	R.M. Laurs	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This is a comprehensive, multidisciplinary task to conduct studies on the distribution, availability, and migration patterns of North Pacific albacore and associated environmental influences in the eastern North Pacific and on the ecology of selected coastal pelagic and groundfishes in the California Current region.

B. METHODOLOGY/APPROACH: The ecosystems approach is followed in these studies to understand fish-ocean relationships needed for the eventual management of the albacore resource. Some of these studies will be conducted in cooperation with the albacore industry. Improvements in catch statistics will be promoted and fish tagging experiments will be conducted in cooperation with fishermen's organizations. Computer models will be developed on growth, migration, and changes in distribution of albacore in response to environmental changes. The task will conduct research on groundfish oceanography directed toward describing the effects of ocean variability on ground-fish recruitment. The task will assume a leading role in the expanding application of satellite remote-sensing to the understanding of fish distribution and availability.

C. PRODUCT/SERVICES: Scientific articles published in marine science literature; written and oral reports of research findings issued to the fishing industry, recreational fishermen, and the general public.

D. CLIENTS: Users of products and research are the U.S. albacore commercial and recreational fishermen and industry buyers and canners. These products help to improve efficiency of operations, improve yields, and save fuel. Knowledge gained by this research will influence judgments in Pacific Fishery management Councils and the Scientific and Statistical Committee in negotiations with other nations involved in west coast fisheries.

E. CONTRACTS: None

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTE				
1. R. Michael Laurs	Supervisory Oceanographer (Res.)	GM 14/00	100%	8L1A4BEO
2. Ronald J. Lynn	Oceanographer	GM 13/00	100%	8L1A4BEO
3. Robert Nishimoto	Fishery Biologist (Res.)	GS 11/07	100%	8L1A4BEO
4. Kenneth A. Bliss	Oceanographer	GS 11/08	100%	8L1A4BEO
5. Ronald C. Dotson	Fishery Biologist (Res.)	GS 11/03	100%	8L1A4BEO
Other				
6. Vice Hess	Biological Technician	GS 07/01	100%	8L1A4BEO

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90 1	2	3	4	91 1	2	92 1	2
8L1A4BEO	A	1	Investigate North Pacific albacore migration patterns, age and structure using tagging and fishery data	O	-	-	-	M			
"	A	2	Prepare three manuscripts on albacore oceanography	D		M	S				
"	E	3	Investigate role of anomalous cool ocean conditions on availability of pre-adults				J	D			
"	A	4	Conduct fishery advisory operations	O	-	-	-	-	-	-	-
"	A	5	Investigate reproductive biology of South Pacific albacore	D	-	-	S				
"	E	6	Prepare manuscript on South Pacific albacore oceanography	O	F						
"	E	7	Install and test new satellite receiving system; provide training for the system	O							
"	A	8	Plan and initiate CoastWatch activities	O	-	-	-	-	-	-	-
"	A	9	Plan and initiate satellite applications to groundfish and other fisheries research	O	-	-	-	-	-	-	-
"	E	10	Complete review of existing oceanographic knowledge of coastal region, including transport, currents and variability	O							
"	E	11	Complete inventory of existing data sources useful for groundfish oceanography, including satellite archives	O	-	M					

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A4BEO	A	12	Conduct physical oceanographic studies of the habitat of sablefish and Dover sole in cooperative sablefish cruises	O	-	-	-	-	-	-	-
"	E	13	Conduct planning workshop on multi-agency cooperative studies of physical oceanography applicable to groundfish	O							
"	A	14	Evaluate feasibility and effectiveness of using Doppler acoustic log and satellite monitored Lagrangian drifters for measuring transport in larval spawning areas.		F	-	A				

FMC	REF. NO.	PAGE
SWR	318	1 OF 5

RESOURCE SUMMARY

TITLE -> Ecology & Systematics of Fishes

TASK NAMES ->					
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A3AGO				
DIRECT LABOR	185.1				185.1
PERS. BENEFITS	30.0				30.0
TRAVEL	3.0				3.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	5.0				5.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	3.5				3.5
EQUIPMENT	3.5				3.5
GRANTS	0.0				0.0
TOTALS ->	230.1				230.1
FTE (FTP)	5.0				5.0
FTE (OTFTP)	0.0				0.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
E C Fullerton

HQ CONTACT

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Ecol. & System. of Fishes	La Jolla	5.0	230.1	H.G. Moser	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: The primary goal is to produce data and analyses that lead to a comprehensive understanding of the fish stocks of the California Current region in relation to their environment. Plankton surveys provide information on distribution abundance, reproduction, spawning stock biomass, mortality, and recruitment of fish stocks along with associated oceanographic factors. A major goal is to determine how fluctuations in abundance and distribution of fish stocks are related to oceanographic flux and predator-prey interactions.

B. METHODOLOGY/APPROACH: Samples of fish eggs and larvae from historical and current plankton survey and trawl cruises are utilized to produce data for this task. Approximately 300 taxa of fishes are represented in these samples. Processing involves the identification, enumeration, measurement, staging, and computer entry. Resultant data is subjected to time series and community analyses leading to the formulation of ecosystem models.

C. PRODUCT/SERVICES: (1) Data reports on the distribution and abundance of ichthyoplankton from California and Baja California from 1939 to the present, (2) Time series summaries showing seasonal and interannual changes in abundance and distribution of major species, (3) Ecological analyses that elucidate species interaction and environmental effects on abundance, (4) Scientific publications on the early life history of fishes that range from papers on individual species and identification guides to comprehensive treatises, and (5) Training courses on ichthyoplankton and techniques.

D. CLIENTS: Scientists in world-wide public and private institutions use our data, reports, and formal publications in their research on commercial, recreational, and ecologically important fish stocks and in formulating ecosystem models. Managers and councils use our information for establishing optimal harvest quotas and conserving territorial fish stocks. The fishing industry uses our information for determining areas of abundance of target species. Private consulting firms and conservation agencies use information for producing their reports. The task has a long-standing commitment to training professional biologists and the public.

E. CONTRACTS: None

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTE				
1. H. Geoffrey Moser	Supervisory Fishery Biologist (Res.)	GM 14/00	100%	8L1A3AG0
2. Elizabeth Stevens	Fishery Biologist (Res.)	GS 11/05	100%	8L1A3AG0
3. David Ambrose	Fishery Biologist (Res.)	GS 11/03	100%	8L1A3AG0
4. William Watson	Fishery Biologist (Res.)	GS 11/01	100%	8L1A3AG0
5. Elaine Acuna	Biological Lab Technician	GS 09/07	100%	8L1A3AG0

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90 1	2	3	4	91 1	2	92 1	2
8L1A3AGO	M	1	Submit completed & reviewed early life history of Calif. halibut ms	O	-	J					
"	E	2	Identify, stage, and measure planktonic stages of Dover sole, sablefish, and other target species from 1990 survey samples	O	-	-	S				
"	A	3	Process and analyze ichthyoplankton data from 1987-1989 surveys (with CFRD Groundfish Team)	O	-	-	-	-	-	-	-
"	E	4	Plan and participate in 1990 groundfish assessment cruise (with CFRD Groundfish Team)	O	-	J					
"	A	5	Continue study of vertical and horizontal distribution of Dover sole and sablefish early life history stages and prepare manuscript on Dover sole egg historical distribution & vertical stratification	O	-	-	-	-	-	-	-
"	A	6	Continue study of planktonic & demersal components of Calif. Current ecosystem based on CalCOFI data base & groundfish survey cruises (with Tasks 319 and 320)	O	-	-	-	-	-	-	-
"	E	7	Analysis of length frequencies of 4 CalCOFI flatfish species (halibut, Dover, rex, & fantail soles) completed & report published	O	-	-	S				
"	A	8	Ecological analysis of CalCOFI ichthyoplankton assemblages. Collaborate with P. Smith on paper describing seasonality & abundance patterns for CalCOFI surveys from 1954-1960. Begin work on analysis of entire time series	O	-	-	-	-	-	-	-
"	E	9	Computer entry of ichthyoplankton from 1984 CalCOFI Survey and prepare data report	O	-	-	S				
"	A	10	Identification guide to CalCOFI ichthyoplankton. Areal and seasonal distributional synopsis published (with Tasks 319 and 320) Begin work on identification guide manuscript	O	-	-	-	-	-	-	-

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L1A3AG0	A	11	Identification and analysis of CalCOFI surface (MANTA) ichthyoplankton. Prepare report on sampling system, eggs and sized larvae for 1978 (with Task 319)	O	-	-	-	-	S		
"	E	12	Stage eggs for 1990 sardine and anchovy spawning biomass estimates	O	-	-	S				
"	A	13	Eastern tropical Pacific surface (MANTA) collections; begin work on collections made in 1987-1989 marine mammal cruises	O	-	-	-	-	-	-	-
"	A	14	Analysis of ichthyoplankton from various cruises (e.g. CalVet collections, Gulf of Calif., habitat, vertical distributions cruises)	O	-	-	-	-	-	-	-
"	E	15	Publish paper on development and distribution of sea chub (opaleye, halfmoon, zebra perch) and complete mss on croakers and sanddabs	O	-	-	-	-	S		
"	E	16	Submit paper on distribution and abundance of rockfish larvae	O	-	-	S				
"	A	17	Analysis of functional morphology of larvae, reproduction, & early life history strategies of CalCOFI fishes.	O	-	-	-	-	-	-	-
"	A	18	Curate collections of CalCOFI fish eggs, larvae, and juveniles and incorporate SONGS samples into collection	O	-	-	-	-	-	-	-
"	A	19	Provide consultation, advice, and instruction on research problems dealing with ichthyoplankton and reproductive biology of fishes	O	-	-	-	-	-	-	-
"	A	20	Review and edit manuscripts and research proposals	O	-	-	-	-	-	-	-

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	July 31, 1989	
FMC	REF. NO.	PAGE
SWR	319	1 OF 5

RESOURCE SUMMARY					
TITLE ->	Coastal & Pac. Fish. Resources Invest.				
TASK NAMES ->					V
OBJECT CLASS	TASK #1 8L1A6AH0	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	305.6				305.6
PERS. BENEFITS	36.2				36.2
TRAVEL	4.2				4.2
TRANSPORTATION	2.0				2.0
RENT,COMM.,UTIL.	15.0				15.0
PRINT/REPROD.	1.0				1.0
CONTRACTS	89.1				89.1
SUPPLIES/MATERIAL	13.4				13.4
EQUIPMENT	8.0				8.0
GRANTS	0.0				0.0
TOTALS ->	474.5				474.5
FTE (FTP)	5.0				5.0
FTE (OTFTP)	5.2				5.2

VESSELS # SEA DAYS ALLOC.	
90	
NOAA	CHARTERS
74	16
# FREE DAYS	
32 SIO	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett   HQ CONTACT
E. Fullerton

EXECUTIVE SUMMARY

SWR	319	2 OF 5

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Coastal & Pac. Fish. Invest	La Jolla	10.2	474.5	R.L. Charter	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This task provides the basic information required for the annual assessment of stocks supporting California coastal fisheries. This task provides the logistics in FY90 for four California Cooperative Oceanic Fisheries Investigations (CalCOFI), one groundfish cruise and one National Undersea Research Program cruise.

B. METHODOLOGY/APPROACH: We will complete six ichthyoplankton survey cruises collecting over 1000 plankton samples. All of the data from these cruises and samples will be processed by the personnel of this task and cooperating people from the University of California's Scripps Institution of Oceanography. These data will be added to the CalCOFI historical time series. We will also be updating and improving the CalCOFI historical data bases (1951-1989). The Aerial Marine Monitoring System (AMRMS) data bases will also be updated as we get new data.

C. PRODUCT/SERVICES: The major products of this task are the CalCOFI data bases, the AMRMS data base, and the newly acquired groundfish information. Major services include logistics for all Coastal Division cruises, data base management, and assistance in data analysis.

D. CLIENTS: The main clients will be the Pacific Fishery Management Council, Scripps Institution of Oceanography and other NMFS fishery centers.

E. CONTRACTS: Aerial Spotter Contracts ($17.1K) is let for data collection for the Aerial Marine Resource Monitoring System. Charter vessels ($2K) to collect Dover sole and sablefish brood stocks. Charter vessels ($61.0K) for R.O.V. work.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTE				
1. Richard L. Charter	Sup. Computer Programmer Analyst	GS 12/4	100	8L1A6AH0
2. Vacant (vice Flerx)	Fishery Biologist (Res.)	GS 11/1	100	8L1A6AH0
3. Cindy Meyer	Computer Programmer	GS 11/3	100	8L1A6AH0
4. Dimitry Abramenkoff	Fishery Biologist (Res.)	GS 09/5	100	8L1A6AH0
5. Susan Miller	Biological Technician	GS 07/1	100	8L1A6AH0
FTT				
6. Lucy Dunn	Biological Technician	GS 05/1	100	8L1A6AH0
7. Francis Pocinich	Biological Technician	GS 05/1	100	8L1A6AH0
8. Mary Alice Lumpkins	Biological Technician	GS 05/1	80	8L1A6AH0
9. Mary Farrell	Biological Technician	GS 05/1	20	8L1A6AH0
10. Jeanne Haddox	Biological Technician	GS 05/1	100	8L1A6AH0
11. Amy Hays	Biological Aid	GS 04/1	60	8L1A6AH0
12. Vacant	Student	GS 04/1	60	8L1A6AH0

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90 1	2	3	4	91 1	2	92 1	2
8L1A6AH0	E	1	Prepare clearance request for scientific collecting in foreign seas, e.g., Mexico, if needed			J			A		A
8L1A6AH0	A	2	Maintain close liaison with captain and crew of ships of cooperative agencies	-	-	-	-	-	-	-	-
8L1A6AH0	A	3	Maintain AMRMS (aerial survey) data base	-	-	-	-	-	-	-	-
8L1A6AH0	A	4	Assist in design and development of data management system for the groundfish data	D				O	A	O	A
8L1A6AH0	A	5	Sort plankton samples for groundfish & CalCOFI cruises for major species	-	-	-	-	-	-	-	-
8L1A6AH0	A	6	Enter and edit all data and sorting results pertinent to the biomass estimates	-	-	-	-	-	-	-	-
8L1A6AH0	A	7	Edit all data collected at sea; correct all errors, enter into CalCOFI and groundfish data bases	-	-	-	-	-	-	-	-
8L1A6AH0	A	8	Design cruise patterns, establish activities, prepare cruise announcements and reports	-	-	-	-	-	-	-	-
8L1A6AH0	A	9	Ready all seagoing equipment for cruises; design and construct experimental gear	-	-	-	-	-	-	-	-
8L1A6AH0	A	10	Maintain close liaison with captain and crew of R/V David Starr Jordan and other research vessels	-	-	-	-	-	-	-	-
8L1A6AH0	A	11	Update, improve and use shipboard computer system to allow transfer of digitized CalBOBL and Manta tow data, captain's logs and logs to SWFC on IBM PC compatibles	-	-	-	-	-	-	-	-

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A6AH0	A	12	Update and improve CalCOFI data bases, computer programs and edits	-	-	-	-	-	-	-	-
8L1A6AH0	A	13	Consult with program leaders and retrieve data from CalCOFI data bases when needed	-	-	-	-	-	-	-	-
8L1A6AH0	A	14	Develop and implement data entry routines for IBM PC compatibles	-	-	-	-	-	-	-	-

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	320	1 OF 5

RESOURCE SUMMARY

TITLE ->	Survey Systems Development & Evaluation				
TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A6AJO				
DIRECT LABOR	221.7				221.7
PERS. BENEFITS	35.9				35.9
TRAVEL	2.8				2.8
TRANSPORTATION	0.5				0.5
RENT,COMM.,UTIL.	3.0				3.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	1.5				1.5
SUPPLIES/MATERIAL	20.6				20.6
EQUIPMENT	12.1				12.1
GRANTS	0.0				0.0
TOTALS ->	298.1				298.1
FTE (FTP)	4.0				4.0
FTE (OTFTP)	1.7				1.7

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Zakore Barrett
RC Fullerton

HQ CONTACT

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Survey Systems Dev. & Eval.	La Jolla	5.7	298.1	P.E. Smith	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: There are increasing demands for quantitative information on the status of fish stocks for fishery development, management and allocation of stocks. There is historical information on the spawning activity of commercial stocks of fish and their associates and SWC320 maintains files of data from 1939 to the present regarding status of the fish, their spawning grounds and physical oceanographic measurements. Our primary objective is to provide quantitative species and environmental data to aid in development and management of the fisheries.

B. METHODOLOGY/APPROACH: With other specialists, we design and carry out field surveys to gather accurate, precise, inclusive, and representative data on fish population size and spawning area using data on abundance, production, survival, and dispersal of fish eggs and larvae. Consideration is given to the past surveys to maintain continuity with historical data so that time-series may be assembled for the evaluation of changes in the population. We also specify new and archive old data on ocean climatology in the California Current Ecosystem.

C. PRODUCT/SERVICES: Our main products and services are scientific papers on the basic biology of and changes in resource populations and the environment and documented sets of data for other scientists or data summaries for fishery managers.

D. CLIENTS: Our major clients are regional fishery managers, NMFS and California Department of Fish and Game, other scientists at the University of California, and global interests in the understanding of resource population changes.

E. CONTRACTS:

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP		% TIME	TASK #
FTE					
1. Paul E. Smith	Fishery Biologist (Res.)	GM	14/00	100%	8L1A6AJO
2. Laurence E. Eber	Oceanographer	GS	13/10	100%	8L1A6AJO
3. Nancy C. H. Lo	Mathematical Statistician	GS	13/07	100%	8L1A6AJO
4. John L. Butler	Fishery Biologist (Res.)	GS	11/04	100%	8L1A6AJO
OTHER					
5. John Lim	Computer Clerk	GS	04/01	30%	8L1A6AJO
6. Andrea Calabrese	Biological Aid	GS	03/01	44%	8L1A6AJO
7. Vacant	Otolith Technician	GS	03/01	35%	8L1A6AJO
8. Vacant	NURP Research Assistant	GS	05/01	63%	8L1A6AJO

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A6AJO	A	1	Determine key parameters for groundfish biomass estimation and optimal method for assessing them	O	-	-	S				
"	A	2	Develop sampling plan for pilot studies and calibration of density estimates of Dover sole, thornyhead, grenadier and other continental slope resources using towed remotely operated vehicle and swept trawl area methods	O	-	-	S				
"	M	3	Analyze survey data of sablefish and develop EPM estimation procedure for the 1989 cruise	O	-	-	J				
"	E	4	Analyze temperature field from deep bongo records for comparison with incidence depths and temperature limits for sablefish eggs	O	F						
"	E	5	Conduct cruise to determine offshore trends in sablefish spawning and the environmental correlates of an offshore limit to spawning if any	O	M						
"	A	6	Calibrate age of sablefish and other decades-old fishes of the continental slope community	O	-	-	-	-	-	-	-
"	E	7	Complete manuscript on the 7-year time series by month	O	-	M					
"	M	8	Complete analysis of aerial survey data for possible inclusion in refined stock synthesis model for anchovy management tool	O	-	J					
"	A	9	California sardine mortality rates	O	-	-	-	-	-	-	-

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	320	5 OF 5

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A6AJO	A	10	Update and modify the estimation procedures for the spawning biomass of pelagic fish		J	-	A				
"	E	11	Complete manuscript on the 40-year time series by year	O	-	-	S				

CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	330	1 OF 6

RESOURCE SUMMARY					
TITLE ->	Comm. & Rec. Fish. Research for Mgmnt				
TASK NAMES ->					V
OBJECT CLASS	TASK #1 8L1C2ASO	TASK #2 8L1C2AS2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	202.2	19.1			221.3
PERS. BENEFITS	32.8	3.1			35.9
TRAVEL	8.0	1.0			9.0
TRANSPORTATION	0.0	0.0			0.0
RENT,COMM.,UTIL.	4.0	0.0			4.0
PRINT/REPROD.	1.5	0.8			2.3
CONTRACTS	0.0	110.0			110.0
SUPPLIES/MATERIAL	4.5	2.0			6.5
EQUIPMENT	3.0	4.0			7.0
GRANTS	0.0	0.0			0.0
TOTALS ->	256.0	140.0			396.0
FTE (FTP)	5.0	0.0			5.0
FTE (OTFTP)	0.5	0.75			1.25

APPROVAL SIGNATURE Zakore Barnett / Ed Fullerton   HQ CONTACT

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
SWR	330	2 OF 6

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Comm. & Recr. Fish. Mgmt.	La Jolla	6.3	396.0	D.D. Huppert	Inform. Analysis Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: Biological and economic information is needed for fishery management. Research products needed include contributions to FMPs, other management information documents, fish stock assessments, methodological improvements in stock assessments, economic information on status of commercial fisheries, evaluations of alternative management strategies, and economic evaluations of marine recreational fisheries. Planning and management of the joint SWC/SWR socio-economic fund is also needed.

B. METHODOLOGY/APPROACH: Task biologists utilize historical data bases (CalCOFI, CDFG sea survey, and special SWFC survey and port samples) in conjunction with quantitative analytical models to estimate stock sizes, investigate the population dynamics and sustainable yields, and to evaluate alternative biological aspects of management strategies.

Task economists use data on prices, catches, fishing fleet characteristics, fishing costs, and recreational fishing surveys to assess fishing fleet productivity, evaluate alternative management regulations, and assess economic characteristics of marine recreational fishing.

Program personnel also (1) Plan and participate directly in some seagoing data collection efforts (e.g., surveys of west coast groundfish) and (2) Plan and monitor economics data collection (e.g., fishing vessel cost and earnings data, and recreational fisheries surveys).

C. PRODUCT/SERVICES: Abundance estimates for northern anchovy, Sebastolobus sp., and Pacific mackerel. Improved stock assessment techniques. Annual fishery status report for coastal pelagics, and major contributions to reports of Pacific coast groundfish and tuna fisheries. Economic data and analyses of recreational marine fishing; improved techniques for economic valuation and productivity measurement; and regulatory impacts assessments for tuna regulations.

D. CLIENTS: Information and reports generated in this program are used by (1) the Pacific Fishery Management Council, (2) State-Federal cooperative management efforts, (3) U.S. government agents in tuna fisheries currently or prospectively under international management, (4) U.S. representatives in international fisheries investigations (e.g., Mexus-Pacifico), and (5) Other public groups concerned with nearshore ocean management.

E. CONTRACTS: (1) Hawaiian Billfish Recreational Fishery Study, (2) Economic Model of Sacramento River Salmon Fishery; (3) South Pacific drift gillnet interaction economic analysis.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP		% TIME	TASK #
1. Vacant (vice Huppert)	Supv. Industry Economist	GM	14/00	100%	8L1C2ASO
2. Samuel Herrick	Industry Economist	GS	12/07	100%	8L1C2ASO
3. Dale Squires	Industry Economist	GS	12/02	100%	8L1C2ASO
4. Cynthia Thomson	Industry Economist	GS	11/04	100%	8L1C2ASO
5. Larry Jacobson	Fishery Biologist	GS	12/01	100%	8L1C2ASO
Other					
6. Vacant	Computer Aid	GS	05/01	50%	8L1C2ASO
7. Vacant	Industry Economist (Summer Faculty)	GS	14/01	25%	8L1C2AS2
8. Vacant	Student Economist	GS	04/01	50%	8L1C2AS2

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90 1	2	3	4	91 1	2	92 1	2
8L1C2ASO	A	1	Participate on PFMC's Anchovy Fishery Management Team, and present preliminary anchovy biomass estimate to SWR by July 1, 1990	O	-	-	J				
"	M	2	Complete documentation of final anchovy biomass estimate by August 1, 1990				J				
"	M	3	Develop annual wetfish fishery information and co-author Administrative Report on the wetfish fishery status by July 7, 1990				J				
"	A	4	Assist California Dept. of Fish & Game with stock assessments of wetfish (esp. mackerel and sardine) as/when requested	O	-	-	-	-	-	-	-
"	E	5	Compile information, in cooperation with SWR and PFRD, for monitoring economics of tuna industry, and provide evaluations, assessments and summaries for Tuna Newsletters and publications	O	-	-	-	-	-	-	-
"	A	6	Provide information on trends and economic events in tuna fishery on request to industry members and to other elements of NOAA	O	-	-	-	-	-	-	-
"	E	7	Complete SWC contribution to SWR regulatory impact review of tuna embargo/marine mammal regulations	O							
"	A	8	Review, collect, and compile existing information on both local fish supply and demand for Pacific coast fisheries for large scale QPM of groundfish fishery	O	-	-	S				
8L1C2ASO	A	9	Obtain new information for groundfish, shrimp, crab, and salmon species on Pacific coast for QPM model		J	-	-	D			
"	M	10	Implement QPM model and perform analysis of significant changes in fishery management for groundfish			M					

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90 1	2	3	4	91 1	2	92 1	2
8L1C2ASO	A	11	Assist PFMC with analysis of and design of proposed limited entry system for groundfish	O	-	-	-	-	-	-	-
"	E	12	Update commercial groundfish fleet productivity index			M					
"	E	13	Assist Regional Office economists in implementing linear programming model for evaluation of sablefish allocations	N							
"	E	14	Co-author report on economic aspects of sablefish allocations	D							
8L1C2AS2	A	15	Monitor contract collection of southern California recreational fishing economics information	O	J						
8L1C2ASO	M	16	Compile, edit and distribute summary report of SoCal RecFish survey results		F						
"	A	17	Design economic/statistical models for evaluation of recreational fishing and marine fishing sites in southern California	O	-	-	-	-	J		
"	E	18	Complete report on estimated economic demands and values associated with recreational fishing	O	J		S				
"	A	19	Coordinate biological data collection and analysis for groundfish fishery with Pacific coast states and NWAFC	O	-	-	-	-	-	-	-
"	A	20	Develop population size and dynamic parameters for Sebastolobus sp. in cooperation with NWAFC, CDFG, and other CFRD tasks	O	-	-	A				

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DESCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1C2ASO	A	21	Provide other stock assessment and fishery evaluation information to Pacific Fishery Management Council and its Groundfish Management Team as needed	O	-	-	-	-	-	-	-
"	E	22	Prepare and distribute report on status of Sebastolobus species stocks off Pacific coast				A				

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	AUG 1989	
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RESOURCE SUMMARY

TITLE -> TUNA & LARGE PELAGICS STOCK INVEST.

TASK NAMES ->					
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C5AB2	8L1C5AB1			
DIRECT LABOR	151.7	53.4			205.1
PERS. BENEFITS	24.6	8.6			33.2
TRAVEL	3.0	1.2			4.2
TRANSPORTATION	0	0			0
RENT,COMM.,UTIL.	5.8	0.5			6.3
PRINT/REPROD.	4.5	1.5			6.0
CONTRACTS	55.0	0			55.0
SUPPLIES/MATERIAL	6.5	2.5			9.0
EQUIPMENT	0	0			0
GRANTS	0	0			0
TOTALS ->	251.1	67.7			318.8
FTE (FTP)	4.0	1.0			5.0
FTE (OTFTP)	0.5	0			0.5

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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EXECUTIVE SUMMARY

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TITLE - Tuna &	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Large Pelagics Stock Inves.	La Jolla	5.5	318.8	N. Bartoo	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: This task investigates and provides advice and information on stocks of tuna and large pelagics found in both the Oceanic ecosystem and the California Current ecosystem. Investigations and work plans are formulated to meet requirements specified by NMFS resource managers associated with international fisheries agreements (IATTC, ICCAT, IOFC, IPTP, S. Pacific Tuna Treaty) and associated with regional fisheries management councils (Pacific and Western Pacific) and with tuna-billfish negotiations. The data and advice are used in International negotiations and discussions, and discussions regarding access, exploitation, conservation, and protection of the resources as well as for generating advice used in formulating domestic policies for conservation and protection, and for management options.

B. METHODOLOGY/APPROACH: The task produces data and biological information developed from experiments and fishery sampling as well as integrating similar data generated by related tasks. The adequacy and accuracy of data and information are assessed, and appropriate fisheries and ecological models are employed or developed to produce required assessments and advice.

C. PRODUCT/SERVICES: Products are scientific reports and publications providing assessments and ecological information and data on stocks and fisheries as required. Products are distributed in the form of internal reports, newsletters, SWFC Administrative Reports, NOAA Technical Memorandums, and various technical publications

D. CLIENTS: Principal clients include NMFS managers, U.S. Government commissioners to international organizations, SSC of regional councils, and SWFC scientists.

E. CONTRACTS: Pacific Marine Fisheries Commission; $54.0 - port sampling of U.S. albacore data. Various private sources; $1K - keypunching of data.

PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
N. Bartoo	Supervisory Fishery Biolgist (Research)	GM13	100	8L1C5AB2
D. Au	Fishery Biologist (Research)	GS12/10	100	8L1C5AB2
D. Holts	Fishery Biologist (Research)	GS11/4	100	8L1C5AB2
K. Handschuh	Secretary	GS6/6	100	8L1C5AB2
Vacant (T)	Computer Aide	GS4/1	50	8L1C5AB2
J. Squire	Fishery Biologist (Research	GS13/10	100	8L1C5AB1

MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	2	3	4	91 1	2	92 1	2
8L1C5AB2	E	1	Publish 1989 contributions for tuna and billfish stocks and fisheries reports		X		X				
8L1C5AB2	A	2	Produce 1990 countributions for tuna and billfish compendium	X	X	X	X				
8L1C5AB2	E	3	Analyze and report on tuna surface behavior/indicator species			X		X	X		
8L1C5AB2	A	4	Conduct joint CF&G/NMFS swordfish tracking experiment; issue cruise report		X						
8L1C5AB2	A	5	Monitor west coast commercial shark fisheries	X	X	X	X	X	X	X	X
8L1C5AB2	E	6	Coordinate north Pacific albacore assessment working group for FAO expert consultation. Report on findings.	X	X	X	X				
8L1C5AB2	A	7	Review W. Pacific yellowfin L-F data for distribution information; report results	X	X	X	X				
8L1C5AB1	E	8	Publish Billfish Angler Newsletter			X			X		X
8L1C5AB1	A	9	Conduct Pacific billfish angler survey	X	X	X	X	X	X	X	X
8L1C5AB1	A	10	Coordinate Pacific cooperative billfish tagging project	X	X	X	X	X	X	X	X
8L1C5AB1	A	11	Assist in areal spotter data collection program	X	X	X	X	X	X	X	X

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RESOURCE SUMMARY

TITLE ->	Multispecies Data Coll. & Evaluation				
TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C1AW1	8L1C1VW2			
DIRECT LABOR	123.4	134.8			258.2
PERS. BENEFITS	20.0	21.8			41.8
TRAVEL	3.0	0.0			3.0
TRANSPORTATION	1.0	0.0			1.0
RENT,COMM.,UTIL.	11.0	14.3			25.3
PRINT/REPROD.	4.0	0.0			4.0
CONTRACTS	8.0	9.0			17.0
SUPPLIES/MATERIAL	2.0	0.0			2.0
EQUIPMENT	0.0	0.0			0.0
GRANTS	0.0	0.0			0.0
TOTALS ->	172.4	179.9			352.3
FTE (FTP)	4.0	5.0			9.0
FTE (OTFTP)	0.5	0.5			1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
MultispeciesDataColl.&Eval.	La Jolla	10.0	352.3	A. Coan	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: Inherent in the problem of monitoring ecosystems and forecasting changes in marine resources is the collection of data pertinent to each resource and the creation of comprehensive databases that allow analysis and dissemination of these data. The objective of this task is to address this problem by collecting the required data through various published sources, established data exchange agreements or actual field sampling programs and by creating automated data systems. Collection and processing of data for U.S. purse seiners in the South Pacific is conducted as part of the South Pacific Tuna Treaty. Processing of data for marine mammals is conducted as mandated by the Marine Mammal Protection Act.

B. METHODOLOGY/APPROACH: The task processes tuna-dolphin observer data, tuna fisheries data, and other data collected from field experiments, expeditions, and port sampling. The task uses various sources including publications,international contacts, data exchange agreements, etc. to collect data The task also uses statistical methodologies to develop and maintain field sampling programs for the collection of information on fisheries for large pelagics, and for collection of information on marine mammals. Current computer technologies are used to develop and maintain data systems and to provide software for supporting analyses of oceanic and California current ecosystems, and resource forecasting for large pelagic stocks and marine mammals.

C. PRODUCT/SERVICES: Principal products of the task are software, data systems and data collection programs in support of research. The task provides annual summaries and analyses of data by fisheries for use in stock assessments and fisheries evaluations. The task also provides annual summaries and analyses of data collected by tuna-dolphin observers for use in marine mammal stock evaluations.

D. CLIENTS: The task's products and services are used by the PFRD & FMMID research staff, various foreign and domestic fisheries management organizations, NOAA fishery administrators, industry and constituency groups to monitor and manage stocks of large pelagics, and marine mammals. Data are also used by constituency groups involved in fishery development

E. CONTRACTS: Key Punch - 14K, Various private companies
Microfilming - 3K, University of California, San Diego

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
A. Coan	Supv. Mathematical Stat.	GM/13	100	8L1C1AW1
C. Perrin	Computer Programmer Anal.	GS/11/5	100	8L1C1AW1
D. Prescott	Computer Programmer	GS/7/11	100	8L1C1AW1
Vacant	Biol. Technician	GS/7/1	100	8L1C1AW1
Vacant (T)	Computer Programmer	GS/5/1	50	8L1C1AW1
K. Wallace	Computer Programmer Anal.	GS/11/7	100	8L1C1VW2
A. Jackson	Fishery Biologist Tech.	GS/9/5	100	8L1C1VW2
R. Rasmussen	Fishery Biologist Tech.	GS/8/8	100	8L1C1VW2
M. Trianni	Fishery Biologist Tech.	GS/7/2	100	8L1C1VW2
S. Colucci (T)	Computer Assistant	GS/4/1	50	8L1C1VW2
Vacant	Computer Programmer	GS/5/7	100	8L1C1VW2

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1C1AW1	A	1	Update Atlantic tropical tuna data bases		J		S	J	S	J	S
8L1C1AW1	A	2	Develop and maintain data bases for Pacific Ocean and Indian Ocean tunas and other large pelagics	O			S	O	S	O	S
8L1C1AW1	A	3	Collect data from fisheries for tunas and large pelagics in the Pacific and Indian Oceans	O			S	O	S	O	S
8L1C1AW1	E	4	Process South Pacific Regional Tuna Treaty Data	O			S	O	S	O	S
8L1C1AW1	E	5	Reevaluate sampling plan for the collection of fisheries data under the South Pacific Regional Tuna Treaty				J		J		J
8L1C1AW1	M	6	Produce report summarizing data for the 1989 North and South Pacific albacore fisheries				J		J		J
8L1C1AW1	A	7	Provide PFRD with software and hardware support	O			S	O	S	O	S
8L1C1VW2	A	8	Provide FMMID with software and hardware support	O			S	O	S	O	S
8L1C1VW2	A	9	Produce comprehensive data base edits in support of porpoise observer data analyses	O			S	O	S	O	S
8L1C1VW2	A	10	Develop new bases and maintain existing data bases for marine mammals	O			S	O	S	O	S
8L1C1VW2	E	11	Participate in and process data from eastern tropical Pacific dolphin research cruises		M		S	M	S	M	S

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L1C1VW2	E	12	Produce summary of 1988 and 1989 NMFS porpoise observer data	O			A				
8L1C1VW2	E	13	Participate in SWR observer forms review				J		J		J
8L1C1VW2	E	14	Develop outline for an historical (1976-86) NMFS porpoise observer atlas	N							
8L1C1VW2	M	15	Stratify sundown set analysis and publish results	D							
8L1C1VW2	M	16	Produce report on high kill sets				A				

FORM 1

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RESOURCE SUMMARY					
TITLE ->	Tropical Tuna Fishery Monitoring & Evaluation				
TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C2A30				
DIRECT LABOR	48.7				48.7
PERS. BENEFITS	7.9				7.9
TRAVEL	0.5				0.5
TRANSPORTATION	0				0
RENT,COMM.,UTIL.	0				0
PRINT/REPROD.	2.0				2.0
CONTRACTS	23.0				23.0
SUPPLIES/MATERIAL	1.8				1.8
EQUIPMENT	0				0
GRANTS	0				0
TOTALS ->	83.9				83.9
FTE (FTP)	1.0				1.0
FTE (OTFTP)	1.0				1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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FORM 2

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Fishery Monitoring & Eval.	La Jolla	2	83.9	G. Sakagawa	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: This task monitors tropical tuna trade and fishery developments on a global scale to aid in the interpretation and evaluation of fishery statistics used in analyses of stock condition. Additionally, this task supports research on tuna stock assessments.

B. METHODOLOGY/APPROACH: Data and information for accomplishing this task are obtained from international sources, units at the SWR, and from CYOP-411. The emphasis is on obtaining current information on the fisheries of interest and in using quantitative models for forecasting the effects of resource condition as a result of fishing.

C. PRODUCT/SERVICES: Results of this task are summarized for publication in the Tuna Newsletter, SWFC Administrative Report series, Marine Fisheries Review, etc., as well as for internal reports for administrative action.

D. CLIENTS: The clients vary, depending on the product. The Tuna Newsletter receives wide distribution, both domestic and foreign and is popular with tuna industry personnel, scientists and government officials. Other products are for more specialized interests, particularly internal reports for NMFS managers and U.S. representatives to international commisisons and pure scientific reports for scientists.

E. CONTRACTS: Historical purse seine statistics.

FORM 3

NOAA FISHERIES
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Vacant	Fishery Biologist (Research)	GS12	100	8L1C2A30
Temporary D. Pickelsimer	Clerk	GS4/1	100	8L1C2A30

FORM 4

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1C2A30	E	1	Produce and distribute quarterly SWR/SWFC Tuna Newsletter	N	F	M	A	X	X	X	X
8L1C2A30	A	2	Produce newsletter articles on U.S. tuna statistics	X	X	X	X	X	X	X	X
8L1C2A30	E	3	Produce annual summary of U.S. tuna trade			M			M		M
8L1C2A30	E	4	Publish MS on U.S. canned tuna industry, 1987	D							
8L1C2A30	A	5	Monitor U.S. production of tuna for the fresh fish market	X	X	X	X	X	X	X	X
8L1C2A30	A	6	Conduct analyses in support of tropical tuna assessments	X	X	X	X	X	X	X	X

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY

TITLE -> Pelagic Ecosystem Modelling

TASK NAMES ->	8L1C2A20	8L1C2A40			V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	A	B			
DIRECT LABOR	60.8	71.4			132.2
PERS. BENEFITS	9.8	11.6			21.4
TRAVEL	1.5	11.4			12.9
TRANSPORTATION	0	0			0
RENT,COMM.,UTIL.	0.5	1.1			1.6
PRINT/REPROD.	0.5	1.0			1.5
CONTRACTS	3.0	5.0			8.0
SUPPLIES/MATERIAL	2.9	2.0			4.9
EQUIPMENT	0	0			0
GRANTS	0	0			0
TOTALS ->	79.0	103.5			182.5
FTE (FTP)	1.0	1.0			2.0
FTE (OTFTP)	1.0	0			1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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FORM 2

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Pelagic Ecosystem Modelling	La Jolla	3.0	182.5	Pierre Kleiber	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: This task evaluates current stock assessment models and techniques for accuracy and relevancy of information for management and development of pelagic fisheries and for conservation of pelagic resources. It also assists in designing and conducting stock assessments and in planning and evaluating sampling projects.

B. METHODOLOGY/APPROACH: The principal method is to use simulation models. These can help to pinpoint areas where lack of ecological understanding might lead to deficiencies in proper resource management. They can also simulate data used for stock assessments, where the simulations incorporate more realistic conditions than are assumed by the technique under evaluation. The performance of the technique with the simulated data can then be assessed.

C. PRODUCT/SERVICES: The products are scientific publications, internal reports, and oral presentations which are disseminated to selected parties, including NMFS managers, U.S. commissioners and Fishery Management Council members. Services include consultation in particular situations ranging from management questions to research design, and training on modelling, and on use (and avoiding misuse) of stock assessment techniques.

D. CLIENTS: The audience mostly consists of U.S. fishery management professionals involved in execution of the FMCA, MMPA, and tuna treaties as well as a wider audience of resource scientists in various domestic institutions as well as foreign and international institutions and commissions.

E. CONTRACTS: Maintenance contract for SUN workstation. ($3K)

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
P. Kleiber	Fishery Biologist (Res.)	GM-13	100	8L1C2A20
Vacant (Temp.)	Fishery Technician	GS-5	100	8L1C2A20
G. Sakagawa	Fishery Biol. (Res./Admin)	GM-15	100	8L1C2A40

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L1C2A20	A	1	Adapt TOPS model to simulate tuna movement.			X	X	X	X		
8L1C2A20	A	2	Coordinate fisheries interaction working group for FAO Expert Consultation on Pacific tunas.	X	X	X	X	X	X		
8L1C2A20	M	3	Attend planning meeting for FAO Expert Consultation	X							
8L1C2A20	A	4	Collect and test alternate methods to assess fish movement and fishery interaction.		X	X	X	X			
8L1C2A20	A	5	Investigate effect of widening fishery area and use of satellite information on trends in CPUE in U.S. N. Pacific albacore fishery.	X							
8L1C2A20	M	6	Submit for publication a manuscript on recent trends in albacore CPUE and reassessment of N. Pacific albacore stock condition.		X						
8L1C2A20	M	7	Evaluate albacore CPUE estimation for foreign as well as for domestic fisheries.	X							
8L1C2A40	A	8	Participate in scientific discussions as needed for U.S. involvement in tuna treaty meetings	X	X	X	X	X	X	X	X
8L1C2A40	M	9	Produce background evaluation on ETP stock condition and research budget of the IATTC.				A		A		A
8L1C2A40	A	10	Provide scientific advice for U.S. delegation to ICCAT	N				N		N	
8L1C2A40	A	11	Prepare material for IOFC, IPTP, and FAO scientific meetings	X	X	X	X	X	X	X	X

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	2	3	4	91 1	2	92 1	2
8L1C2A40	M	12	Publish manuscript on factors affecting transfer of U.S. tuna purse seiners	N							
8L1C2A40	A	13	Analyze data to estimate tuna school size.	X	X	X	X	X	X		

NOAA FISHERIES
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RESOURCE SUMMARY

TITLE ->	Fishery Indep. Assessment Program - Marine Mammals				
TASK NAMES ->					\/
OBJECT CLASS	TASK #1 8L1C4VA1	TASK #2 8L1C4VA2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	72.3	124.1			196.4
PERS. BENEFITS	11.7	26.1			37.8
TRAVEL	2.0	2.0			4.0
TRANSPORTATION	0	0			0
RENT,COMM.,UTIL.	0	14.0			14.0
PRINT/REPROD.	0	1.2			1.2
CONTRACTS	0	0			0
SUPPLIES/MATERIAL	3.0	7.9			10.9
EQUIPMENT	0	5.0			5.0
GRANTS	0	0			0
TOTALS ->	89.0	180.3			269.3
FTE (FTP)	2.0	2.0			4.0
FTE (OTFTP)	0	3.6			3.6

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VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

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RESOURCE SUMMARY

TITLE ->	Fishery Independent Assessment Program				
TASK NAMES ->					V
OBJECT CLASS	TASK #1 8L1A6VWO	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	164.1				164.1
PERS. BENEFITS	14.4				14.4
TRAVEL	15.0				15.0
TRANSPORTATION	0				0
RENT, COMM., UTIL.	0				0
PRINT/REPROD.	0				0
CONTRACTS	0				0
SUPPLIES/MATERIAL	23.0				23.0
EQUIPMENT	0				0
GRANTS	0				0
TOTALS ->	216.5				216.5
FTE (FTP)	0				0
FTE (OTFTP)	6.4				6.4

VESSELS # SEA DAYS ALLOC.	
240	
NOAA	CHARTERS
240	
# FREE DAYS	

CROSS REFERENCES

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FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Fishery Indep Ass. Program	SWC-La Jolla	4.0	485.8	D. DeMaster	Res. Info, Info, Anal. & Diss.

A. PROBLEM STATEMENT/OBJECTIVE: This task is one of seven closely linked tasks involving research on dolphins associated with the Eastern tropical Pacific (ETP) tuna fishery. It provides information on biological impacts of management practices by NMFS as mandated by the Marine Mammal Protection Act (MMPA). Recent Congressional action reauthorizing the MMPA, specified a monitoring program to determine trends in dolphin populations over a long sampling period of 5 years or more. This task is responsible for producing the experimental design for the monitoring program and a series of annual surveys using NOAA research vessels and an aircraft. It specifies data to be collected and, after they have been collected, analyzes these data to determine the trends in dolphin abundance, and to evaluate possible causes for the trends.

B. METHODOLOGY/APPROACH: The main focus of the task in FY90 is to conduct research ship surveys of ETP dolphins, participate in data collection, complete data analyses and present findings. This will include completing analyses of data collected during 1986, 1987, 1988 and 1989, completing computer programs for data analyses, and establishing procedures for reviewing results before release to the general public. In addition, the task will compare two methods of monitoring population change by comparing data from tuna vessels with data from research vessels.

C. PRODUCT/SERVICES: Products of the program are used by NMFS offices charged with drafting management measures for U.S. tuna fishery in the ETP.

D. CLIENTS: At least 5 years of data are required to detect a significant decline in the population with 90% confidence using data analyzed by this task. The information generated is used by NMFS to evaluate management options for protection of the ETP dolphin stocks as prescribed by the MMPA and for management of the annual U.S. fishery for tuna in the ETP. Up-to-date information on the condition of the dolphin populations is key requirement for evaluating and selection of an option.

E. CONTRACTS:

FMC	REF. NO.	PAGE
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
DeMaster, Douglas	Wildlife Biologist	GM/15	100	8L1C4VA2
Gerrodette, Timothy	Operations Research Analyst	GM/13	100	8L1C4VA1
Sexton, Stephanie	Operations Research Analyst	GS/11	100	8L1C4VA1
Ratcliffe, Clifford	Secretary	GS/6/2	100	8L1C4VA2

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1C4VA1	M	1	Submit report on ETP dolphin abundance from 1989 MOPS cruise		D						
8L1A6VWO	A	2	Execute 1990 MOPS cruise			X	X	D			
8L1C4VA2	M	3	Prepare report on first three year of MOPS cruises		F						
8L1C4VA1	A	4	Investigate differences in school size estimate between research vessels and tuna vessels	X	X	X	X	D			
8L1C4VA1	M	5	Prepare report on dolphin abundance for IWC			M					
8L1C4VA1	A	6	Investigate differences in encounter rates between research vessels and tuna vessels	X	X	X	X	X	M		

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	8/89	
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SWR	520	1 OF 4

RESOURCE SUMMARY					
TITLE ->	Biology Assessment Program - Marine Mammals				
TASK NAMES ->					\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A5VU1	8L1A5VR4			
DIRECT LABOR	190.2	114.9			305.1
PERS. BENEFITS	30.8	29.5			60.3
TRAVEL	3.5	7.5			11.0
TRANSPORTATION	0	0			0
RENT,COMM.,UTIL.	0	0			0
PRINT/REPROD.	0	0			0
CONTRACTS	2.5	86.0			88.5
SUPPLIES/MATERIAL	17.0	26.3			43.3
EQUIPMENT	0	0			0
GRANTS	0	0			0
TOTALS ->	244.0	264.2			508.2
FTE (FTP)	6.0	3.0			9.0
FTE (OTFTP)	2.0	1.0			3.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE E C Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Biology Assessment Prg.	SWC-La Jolla	9.0	508.2	A. Dizon	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: The primary objective of this program is to use trends in various life history parameters to determine if these stocks are increasing or not. The work is focused primarily on ETP dolphins. This program is also responsible for photographing dolphin schools during the research vessel cruise.

B. METHODOLOGY/APPROACH: Specifically, this year we are studying how sex ratios and other reproductive and physiological parameters respond to various levels of fishing pressure, population size, or forage density in the eastern tropical Pacific populations. As in years past, we will process, curate, and archive dolphin life history data and specimens. Our estimates of reproductive rates and other vital rates; of indexes that reflect fishing pressure, density, or condition; and of stock structures are based primarily on specimens and data collected by NMFS & IATTC technicians aboard commercial seiners.

C. PRODUCT/SERVICES: The products are used, in connection with information on population size and density, to meet the mandated requirements of the Marine Mammal protection Act concerning the gathering of information for determination of "significantly impacted" and "impacted by whom or what" as well as the providing information on trends in relative abundance of stocks that interact with fisheries to the Secretary.

D. CLIENTS: Products are used by other tasks in the Division as well as other groups in NMFS and in the industry charged or involved with management measures for ETP U.S. tuna fishery.

E. CONTRACTS: OAO (helicopter operations) - $85.0k
Private (image analysis) - $ 1.0k
Seal Bomb Workshop - $ 2.5k

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NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Dizon, A.	Fishery Biologist	GM13	100	8L1A5VR4
Myrick, A.	Wildlife Biologist	GS/12/7	100	8L1A5VU1
Hohn, Aleta	Fishery Biologist	GS/12/2	100	8L1A5VU1
Majors, A.	Fishery Biologist	GS/9/9	100	8L1A5VU1
Chivers, S.	Fishery Biologist	GS/9/2	100	8L1A5VU1
Gilpatrick, J.	Fishery Biologist	GS/9/1	100	8L1A5VR4
Akin, P.	Fishery Biologist	GS/7/8	100	8L1A5VU1
Miller, R.	Biological Technician	GS/8/8	100	8L1A5VU1
Lynn, M.	Fishery Biologist	GS/7/1	100	8L1A5VR4

FORM 4

NOAA FISHERIES
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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A5VU1	A	1	Investigate density dependent changes in life history patterns	X	X	X	X	X	M		
8L1A5VU1	A	2	Investigate stock specific differences in life history	X	X	X	S				
8L1A5VU1	A	3	Process and curate life history specimens from ETP dolphins	X	X	X	X	X	X	X	
8L1A5VU1	M	4	Prepare report to Region on effects of "seal bombs" on ETP dolphins, following fall workshop		M						
8L1A5VU1	A	5	Prepare report on dolphin mortality for IWC			M					
8L1A5VU1	M	6	Complete manuscript on theorectical stock structure of ETP dolphins				S				
8L1A5VU1	A	8	Prepare report on stock structure of ETP dolphins based on condition index	X	X	X	D				
8L1A5VR4	M	7	Submit report on observer-photogrammetric school estimates from MOPS 1987 and 1988				J				
8L1A5VR4	A	8	Execute helicopter portion of 1990 MOPS cruise			X	X	D			
8L1A5VR4	E	9	Contribute to report on first three years of MOPS cruises for annual report to Congress		F						
8L1A5VR4	A	10	Prepare report on estimation of pinniped pup production at Channel Islands from aerial photographs	X	X	X	X	D			

FORM 1

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RESOURCE SUMMARY

TITLE -> Fishery Dependent Assessment Program-Marine Mammals

TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A6AW1	8L1A6AW2			
DIRECT LABOR	172.2	56.9			229.1
PERS. BENEFITS	36.9	9.2			46.1
TRAVEL	4.5	1.0			5.5
TRANSPORTATION	0	0			0
RENT,COMM.,UTIL.	0	0			0
PRINT/REPROD.	0	0			0
CONTRACTS	15.0	0			15.0
SUPPLIES/MATERIAL	7.5	1.5			9.0
EQUIPMENT	2.0	1.0			3.0
GRANTS	0	0			0
TOTALS ->	238.1	69.6			307.7
FTE (FTP)	4.0	1.0			5.0
FTE (OTFTP)	1.5	1.0			2.5

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
EC Fullerton

HQ CONTACT

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Fishery Dep. Asses. Prg.	SWC-La Jolla	5.0	307.7	Steve Reilly	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: In addition to the research vessel surveys, the SWC will be evaluating dolphin encounter rate data collected by observers aboard tuna vessels for use as an index to changes in the relative abundance of ETP dolphins. The basic approach of the program is to define and identify various attributes of the fishery, describe the environmental features that affect dolphin distribution, and examine various subsampling and stratification schemes. In FY90 the primary emphasis of the program will be to summarize the influence of environmental variability on the distribution of dolphins and to analyze RVOD for trends in dolphin abundance.

B. METHODOLOGY/APPROACH: Environmental data from CTDs, BTs, flow-through temperature/salinity, fluorescence sensors, satellite imagery, and other sources as available will be used to describe "habitat" for each of the 4 primary species of dolphins being studied. The available habitat will then be estimated each year and the relative abundance index will be adjusted by this factor. In addition, environmental data will be used to standardize encounter rate data collected by observers on tuna vessels. In addition, a model, developed to simulate the type of data observers on research vessels collect, will be used to test for bias and precision in estimates based in RVOD. Finally, an analysis of mortality data and factors that affect it are done in this program.

C. PRODUCT/SERVICES: The data and results will be used in combination with data from the Biology Program and from research vessels surveys (MOPS) to determine whether the relative number of dolphins in the ETP are increasing or decreasing, and if decreasing, to determine if the observed decline is at least in part related to the U.S. tuna fleet. In addition, recommendations on coverage rates for observers and on the influence of sundown sets on total mortality will be produced.

D. CLIENTS: Data will be used by SWC personnel to determine trends in the relative abundance of dolphin stocks in the ETP. Final reports will be submitted to the SWR office and will be used in developing a management program for ETP dolphins.

E. CONTRACTS: AOML (Oceanography) - $15.0k

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NOAA FISHERIES
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Reilly, Steve	Fishery Biologist	GM/14/2	100	8L1A6AW1
Edwards, E.	Operations Research Analyst	GS/13/1	100	8L1A6AW2
Oliver, Charles	Fishery Biologist	GS/12/4	100	8L1A6AW1
Fiedler, Paul	Oceanographer	GS/12/2	100	8L1A6AW1
Lehrheimer, L.	Oceanographer	GS/7/2	100	8L1A6AW1

FORM 4

NOAA FISHERIES
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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A6AW1	M	1	Complete manuscript on availability of habitat for ETP dolphins				S				
8L1A6AW1	A	2	Curate and Manage ETP oceanographic data from MOPS cruises			X	X				
8L1A6AW1	A	3	Coordinate ancillary research on MOPS cruises	X	X			X	X		
8L1A6AW1	A	4	Conduct at-sea studies on dolphin distribution in ETP	X	X	X	X	X	M		
8L1A6AW2	M	5	Complete report on TOPS model-evaluation of specific methodology using RVOD			J					
8L1A6AW2	A	8	Conduct research on trends in relative abundance of dolphins based on TVOD	X	X	X	X	X	X	X	X

FORM 1

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RESOURCE SUMMARY					
TITLE ->	Coastal Marine Mammal Program				
TASK NAMES ->					\/
OBJECT CLASS	TASK #1 8L1A5VR1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	91.0				91.0
PERS. BENEFITS	19.3				19.3
TRAVEL	4.2				4.2
TRANSPORTATION	5.0				5.0
RENT,COMM.,UTIL.	0				0
PRINT/REPROD.	0				0
CONTRACTS	32.0				32.0
SUPPLIES/MATERIAL	15.5				15.5
EQUIPMENT	2.0				2.0
GRANTS	0				0
TOTALS ->	169.0				169.0
FTE (FTP)	2.0				2.0
FTE (OTFTP)	1.0				1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
Ed Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Coastal Marine Mammals	SWC-La Jolla	2.0	169.0	Jay Barlow	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This task investigates changes in coastal marine mammal populations associated with human activities (e.g. research, commercial fisheries, etc.). The task provides information so that the status of stocks of certain species can be determined, allowing NMFS to fulfill requirements under the Marine Mammal Protection Act.

B. METHODOLOGIES/APPROACH: During FY89 this taks is to census California sea lion and elephant seal rookeries, investigate pup production and food habits, update status of stock reports for California harbor porpoise, sea lions, elephant seals, and harbor seals, and conduct studies on movement patterns and exchange rates in harbor porpoise and harbor seal populations to assess stock discreteness.

C. PRODUCT/SERVICES: The information produced by this task will primarily be used by NMFS management personnel to 1) develop actions to protect stocks of California marine mammals from unnecessary fishery mortality; 2) determine allowable take for display purposes; and 3) evaluate the effects of incidental take of marine mammals by coastal fisheries on the health of overall ecosystems.

D. CLIENTS: Products provided by this task are used by NMFS offices charged with drafting measures to control the take of coastal marine mammals.

E. CONTRACTS:
1) CDF& G $25.0K - Aerial survey of harbor porpoise
2) Private $ 2.0K - Flight time for surveys of Channel Islands
3) Private $ 2.5K - Film processing
4) Private $ 2.5k - flight time for coastal cetaceans

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Barlow, J.	Sup. Ops. Research Analyst	GM/13	100	8L1A5VR1
Lowry, Mark	Fishery Biologist	GS/9/4	100	8L1A5VR1

FORM 4

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A5VR1	E	1	Assist California Department of Fish and Game in the censusing of harbor porpoise in California	X							
8L1A5VR1	A	2	Census and assist in the censusing of sea lion and elephant seal pups in California		X	X					
8L1A5VR1	A	3	Update status of stock reports on pinnipeds and harbor porpoise	X	X	X	X				
8L1A5VR1	M	4	Prepare report on harbor porpoise surveys (1986-1989)			A					
8L1A5VR1	E	5	Conduct research on movement patterns of harbor porpoise with telemetry	X	X	X	X				

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	August 1989	
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SWR	601	1 OF 7

RESOURCE SUMMARY					
TITLE ->	Antarctic Ecosystem Research Group				
TASK NAMES ->	Ecosystem	Krill Asses	Fish Stock	Operations	\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A6H01	8L1A6H02	8L1A6H03	8L1A6H04	
DIRECT LABOR	91.2	60.2	20.6	0	172. 0
PERS. BENEFITS	14.8	9.8	3.3	2.0	29.9
TRAVEL	49.4	20.0	7.6	28.4	105.4
TRANSPORTATION				3.0	3.0
RENT,COMM.,UTIL.	2.2	2.9	5.0	0.6	10.7
PRINT/REPROD.	1.0				1.0
CONTRACTS	625.0	160.0			785.0
SUPPLIES/MATERIAL				16.8	16.8
EQUIPMENT			1.2	175.0	176.2
GRANTS					
TOTALS ->	783.6	252.9	37.7	225.8	1300.0
FTE (FTP)	1.0	1.0	0.5	0	2.5
FTE (OTFTP)	1.5	0.5	0	0	2.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
122	
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Rodore Barnett
EC Fullerton

HQ CONTACT

FMC	REF. NO.	PAGE
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Antarctic Eco. Monitoring	La Jolla CA	4.5	1300.0	R. Holt	Resource Management

A. PROBLEM STATEMENT/OBJECTIVE:

The U.S. Antarctic Marine Living Resources (AMLR) program provides information needed to formulate U.S. policy on the conservation and international management of resources living in the oceans surrounding Antarctica. The program was established by Public Law 98-623 to provide advice to the U.S. delegation to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR), part of the Antarctic treaty system. The AMLR program is managed by the Antarctic Ecosystem Research Group located at the Southwest Fisheries Center.

B. METHODOLOGY/APPROACH:

The AMLR program will be divided into four tasks: 1) Ecosystem Monitoring which will administer and coordinate studies on primary productivity, physical oceanography, land-based predators, pelagic predators, and satellite oceanography. This task will conduct AMLR Advisory Panel meetings and coordinate scientific presentations and participation at CCAMLR meetings. The task will also establish a data management system for environmental data, fisheries data, and satellite imagery. 2) Krill Assessment which will coordinate direct (net) and indirect (acoustic) surveys for krill. The task will also particpate on an acoustic krill survey conducted by South Africa, specify and procure an acoustic survey system and hire an acoustic technician. 3) Fish Stock Assessment which will review papers on the status of fish stocks submitted to the 1989 meetings of CCAMLR. A fish stock population biologist from NER will assist in preparing for the 1989 CCAMLR meeting. Subsequently a population biologist will be hired to obtain and analyze commercial catch statistics. 4) Field Operations which will design, coordinate and conduct activities undertaken during the field season in accordance with the long-range Antarctic research strategy.

C. PRODUCT/SERVICES:

Reports and technical papers are prepared to meet U.S. obligations to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR). Scientific papers are prepared for publication. Task members will participate in CCAMLR working groups and other international meetings to address conservation issues and assess relevant scientific information.

D. CLIENTS:

Information provided by the task will be used by the State Department to formulate U.S. positions on Antarctic resource conservation, by the U.S. AMLR program to adjust its long-range research strategy, by the CCAMLR Scientific Committee, and by other governments and researchers working in the Antarctic.

E. CONTRACTS:

Primary productivity survey, physical oceanography studies, direct sampling for krill, acoustic sampling for krill, ichthyofauna sampling, bird monitoring, ecosystem paradigm description.

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Rennie Holt	Fishery Biologist	GM/15	100	8L1A6H01
2. Vacant	General Biologist	GS/7 (Temporary)	100	8L1A6H01
3. Vacant	Operations Research Analyst	GS/11 (Temporary)	50	8L1A6H01
4. Roger Hewitt	Fishery Biologist	GM/14	100	8L1A6H02
5. Vacant	Fishery Biologist	GS/9 (Temporary)	50	8L1A6H02
6. Vacant	Fishery Biologist	GS/13	50	8L1A6H03
7. Vacant	Operations Officer	NOAA Corps Grade 02-04	50	

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A6H01	A	1	Negotiate and administer contracts and/or cooperative agreements for primary productivity studies.			x					
8L1A6H01	A	2	Negotiate and administer contracts and/or cooperative agreements for physical oceanography studies.			x					
8L1A6H01	A	3	Coordinate land-based predator studies and pelagic predator studies conducted by NOAA's National Marine Mammal Laboratory.	x	x	x	x	x	x	x	x
8L1A6H01	A	4	Coordinate satellite oceanography studies undertaken by NOAA's Office of Research and Applications.	x	x	x	x	x	x	x	x
8L1A6H01	E	5	Hire environmental data manager.		x						
8L1A6H01	A	6	Establish data management system for environmental data, fisheries data, and satellite imagery.			x					
8L1A6H01	E	7	Conduct AMLR Advisory Panel meeting.		x						
8L1A6H01	E	8	Conduct pre-CCAMLR meeting.			x					
8L1A6H01	M	9	Coordinate scientific presentations and participation at CCAMLR Scientific Committee meeting.			x	x				

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A6H02	E	1	Specify study area and general 1989 survey design. Call for proposals.	x							
8L1A6H02	E	2	Award cooperative agreements and/or contracts.			x					
8L1A6H02	A	3	Conduct 1989 field work, process samples, analyze data.	x	x						
8L1A6H02	E	4	Complete acoustic survey report.		x						
8L1A6H02	A	5	Complete direct sampling survey report.		x						
8L1A6H02	E	6	Participate on South African acoustic survey cruise.		x	x					
8L1A6H02	A	7	Specify and procure acoustic survey system.		x	x	x				
8L1A6H02	E	8	Hire acoustic technician.			x					
8L1A6H02	A	9	Complete survey design for 1990 field work.		x	x					

FORM 4

NOAA FISHERIES
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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A6H03	A	1	Review papers on status of fish stocks submitted to CCAMLR.	x		x	x	x	x	x	x
8L1A6H03	M	2	Attend and partipate in meetings of CCAMLR Scientific Committee and Working Group on Fish Stock Assessment.	x				x		x	
8L1A6H03	E	3	Hire fish stock population biologist.			x					
8L1A6H03	A	4	Obtain and analyze fish catch data.				x	x	x	x	x
8L1A6H03	A	5	Prepare report on population demography and abundance trends of selected fish stocks.					x		x	

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A6H04	A	1	Design cruise in accordance with long-range Antarctic research strategy.	x			x	x	x	x	
8L1A6H04	E	2	Prepare and distribute cruise announcement and call for proposals.	x			x	x	x	x	
8L1A6H04	A	3	Evaluate research proposals and negotiate contracts and/or cooperative agreements.	x			x	x	x	x	
8L1A6H04	A	4	Prepare and distribute draft and final cruise plans.	x	x		x	x	x	x	
8L1A6H04	A	5	Manage logistics and convene pre-cruise and post-cruise meetings.	x	x	x	x	x	x	x	x
8L1A6H04	E	6	Conduct cruise.	x	x			x		x	
8L1A6H04	M	7	Prepare and distribute cruise report.			x			x		x

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE ->	Director's Office & Administration				
TASK NAMES ->	9WGN40H1	9WGN40H2			V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	86.5	151.5			238.0
PERS. BENEFITS	11.4	20.8			32.2
TRAVEL	9.8	1.5			11.3
TRANSPORTATION	0.0	15.5			15.5
RENT,COMM.,UTIL.	1.0	52.3			53.3
PRINT/REPROD.	0.0	0.0			0.0
CONTRACTS	0.0	26.5			26.5
SUPPLIES/MATERIAL	4.1	12.5			16.6
EQUIPMENT	4.0	0.8			4.8
GRANTS	0.0	0.0			0.0
TOTALS ->	116.8	281.4			398.2
FTE (FTP)	1.7	5.0			6.7
FTE (OTFTP)	0.0	1.0			1.0

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
E.J. Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
D.O. OFFICE & ADMIN.	HON. LAB.	7.7	398.2	G. BOEHLERT	MANAGEMENT FUND

A. PROBLEM STATEMENT/OBJECTIVE: TO PROVIDE OVERALL MANAGEMENT AND ADMINISTRATION OF BOTH HUMAN AND FISCAL RESOURCES FOR THE HONOLULU LABORATORY.

B. METHODOLOGY/APPROACH: PROVIDE GUIDANCE FOR OVERALL OPERATIONS AND SCIENTIFIC PROGRAM OF HONOLULU LABORATORY. MAINTAIN AND IMPROVE INTERNAL CONTROLS AND STREAMLINE OPERATING PROCEDURES.

C. PRODUCT/SERVICES: PROVIDE EFFICIENT DAY-TO-DAY ADMINISTRATION OF THE HONOLULU LABORATORY IN AREAS OF PROCUREMENT, PERSONNEL AND FACILITY MAINTENANCE; FLOW OF INFORMATION/PRODUCTS TO OUTSIDE AGENCIES AND THE PUBLIC.

D. CLIENTS: SOUTHWEST REGION, WESTERN PACIFIC REGIONAL FISHERIES MANAGEMENT COUNCIL, FISHING INDUSTRY, GENERAL PUBLIC.

E. CONTRACTS: CONTRACTING OF JANITORIAL AND GOUND MAINTENANCE IS REQUIRED FOR THE HEALTH AND SAFETY OF OUR STAFF.

FORM 3

NOAA FISHERIES
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. BOEHLERT, GEORGE W.	DIRECTOR	GM/15	75	9WGN40H1
2. YUKIHIRO, CAROL	SECRETARY	GS-7/10	100	9WGN40H1
3. YEE, KARENA	ADMINISTRATIVE OFFICER	GS-11/2	100	9WGN40H2
4. ARAKAWA, JOSEPH	BUDGET ANALYST	GS-7/10	100	9WGN40H2
5. DUTRO, MELVIN	MAINT. MECHANIC	WG/7/03	100	9WGN40H2
6. SCHULZ, JOSEPH	ADM. SUPPORT CLERK	GS-5/2	100	9WGN40H2
7. KAWELOLANI, GLADYS	ADM. SUPPORT CLERK	GS-4/2	100	9WGN40H2
TEMPORARIES:				
1. LOS ANGELES, V.	EDITORIAL CLERK	GS-4/10	100	9WGN40H2

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
9WGN40H2	A	1	PROCURE ALL JANITORIAL AND GROUND MAINT. SERVICES FOR LABORATORY	O							
	A	2	UPGRADE THE ELECTRICAL SYSTEM IN LABORATORY MAIN FACILITY	N							
9WGN40H1	A	3	OVERSEE LABORATORY OPERATION, INCLUDING FACILITIES	O	-	-	-	-	-	-	S
	A	4	PROVIDE GUIDANCE FOR OVERALL SCIENTIFIC PROGRAM	O	-	-	-	-	-	-	S
	A	5	SERVE AS FOCUS FOR COMMUNICATION OF HONOLULU LABORATORY SCIENTIFIC PROGRAMS WITH OUTSIDE AGENCIES AND THE PUBLIC	O	-	-	-	-	-	-	S
	A	6	ALLOCATE FUNDING AND PERSONNEL TO ACHIEVE OVERALL LABORATORY GOALS	O	-	-	-	-	-	-	S
	A	7	SERVE AS HABITAT RESEARCH COORDINATOR FOR HONOLULU LABORATORY	O	-	-	-	-	-	-	S

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY					
TITLE ->	Data Management & Technical Services				
TASK NAMES ->	8L1C1AJ1	8L1C1AJ2	8L1C1AJ4		V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	222.8	118.9	51.1		392.8
PERS. BENEFITS	29.5	15.7	6.8		52.0
TRAVEL	0.0	0.0	0.0		0.0
TRANSPORTATION	0.5	0.0	0.0		0.5
RENT,COMM.,UTIL.	28.0	0.0	0.0		28.0
PRINT/REPROD.	0.0	3.0	0.0		3.0
CONTRACTS	5.0	8.0	3.0		16.0
SUPPLIES/MATERIAL	12.8	16.8	14.5		44.1
EQUIPMENT	7.5	0.0	0.0		7.5
GRANTS	0.0	0.0	0.0		0.0
TOTALS ->	306.1	162.4	75.4		543.9
FTE (FTP)	5.0	3.0	1.0		9.0
FTE (OTFTP)	2.6	0.8	0.3		3.7

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
EC Fullerton

HQ CONTACT

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NOAA FISHERIES
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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
DATA MANAGEMENT & TECH SVC.	HON. LAB.	12.7	543.9	D. TIEMAN	RESOURCE INFORMATION

A. PROBLEM STATEMENT/OBJECTIVE: DMTS PROVIDES FOR THE DATA ENTRY, VERIFICATION, EDITING, MAINTENANCE, SECURITY, AND DOCUMENTATION OF GATHERED DATA; INSTALLATION OF HARDWARE AND SOFTWARE, SYSTEM PROGRAMMING, CONSULTATION ON ADP, COORDINATION AND CONSOLIDATION OF ADP PURCHASES; PROVIDES SCIENTIFIC MAUSCRIPTION REVIEWS, TEXT PREPARATION SERVICES, LIBRARY SERVICES, SCIENTIFIC ILLUSTRATIONS, AND GRAPHIC SERVICES IN SUPPORT OF THE SCIENTIFIC MISSION OF THE HONOLULU LAB.

B. METHODOLOGY/APPROACH: EXPANSION OF THE LOCAL AREA NETWORK (LAN), IMPROVEMENT OF THE COMMUNICATIONS CAPABILITIES WITH NON-3COM SITES, COMPLETE CONVERSION FROM AND REMOVE CP/M SYSTEMS; PROVIDE USER TRAINING IN THE LAN SYSTEM AND NEW SOFTWARE, UPGRADE SOFTWARE AND SERVICES AVAILABLE TO HONOLULU LAB USERS. INSTALL PACIFIC AREA OFFICE ON NETWORK.

C. PRODUCT/SERVICES: PRODUCTS ARE PROVIDED IN THE FORM OF TYPED MANUSCRIPTS, CORRESPONDENCE, CURRENT SCIENTIFIC AND COMPUTER REFERENCE MATERIALS, HARD COPY AND COMPUTER DATA, INFORMATION, COMPUTER MAINTENANCE, AND COMPUTER SUPPLIES. CONSULTATION SERVICES ARE PROVIDED IN RELATED FIELDS.

D. CLIENTS: PRODUCTS AND SERVICES ARE PRIMARILY USED BY ALL PERSONNEL ASSIGNED TO THE HONOLULU LAB., BUT LIBRARY SERVICES ARE ALSO AVAILABLE TO OUTSIDE AGENCIES AND PERSONNEL.

E. CONTRACTS: CONTRACTS FOR COMPUTER SUPPORT FROM THE UNIVERSITY OF HAWAII, BOOK BINDING, AND TRANSLATIONS WILL CONTINUE TO BE REQUIRED.

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. TIEMAN, DONALD R.	SUPERVISORY COMP.SYS. ANAYST	GS-12/2	100	8L1C1AJ1
2. KUBA, SALLY H.	COMPUTER PROGRAMMER	GS-9/6	100	8L1C1AJ1
3. TAGAMI, DARRYL T.	OP. RES. ANALYST	GS-9/2	100	8L1C1AJ1
4. HIGUCHI, WAYDE S.	COMPUTER PROGRAMMER	GS-7/2	100	8L1C1AJ1
5. TSUKANO, LUCILLE T.	COMPUTER AIDE	GS-6/10	100	8L1C1AJ1
PTP:				
1. PAPPAS, JANET L.	COMPUTER PROGRAMMER	GS-7/2	80	8L1C1AJ1
TEMPORARIES:				
1. MIYAMOTO, BRENT M.	COMPUTER ASSISTANT	GS-5/1	30	8L1C1AJ1
2. UYEDA, RICHARD I.	COMPUTER PROGRAMMER	GS-5/1	100	8L1C1AJ1
3. MASADA, STEFFINY M.	DATA TRANSCRIBER	GS-1/1	40	8L1C1AJ1
4. YANAGI, DORIS M.	DATA TRANSCRIBER	GS-1/1	40	8L1C1AJ1
FTP:				
1. WILLIAMS, LESLIE C.	TECH. PUB. WRITER/EDITOR	GS-9/4	100	8L1C1AJ2
2. VACANT (VICE YOUNG)	EDITORIAL ASSISTANT	GS-6/1	100	8L1C1AJ2
3. LEMBECK, LOUISE F.	EDITORIAL CLERK	GS-5/10	100	8L1C1AJ2
PTP:				
1. ISHIDA, VIRGINIA L.	EDITORIAL CLERK	GS-5/10	88	8L1C1AJ2
2. MAKINI, CYNDY	EDITORIAL CLERK	GS-4/5	96	8L1C1AJ2
FTP:				
1. NISHIMURA, HAZEL S.	LIBRARIAN	GS-11/8	100	8L1C1AJ4
TEMPORARIES:				
1. VACANT	INFO. SPECIALIST	GS-9/1	25	8L1C1AJ4

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L1C1AJ1	A	1	CAPTURE, EDIT, AND MAINTAIN COMPUTER PROCESSABLE DATA	O	-	-	-	-	-	-	S
	A	2	EVALUATE, PURCHASE, INSTALL APPLICATION SOFTWARE PACKAGES, SYSTEM HARDWARE, COMPONENTS AND PERIPHERALS	O	-	-	-	-	-	-	S
	A	3	DESIGN, PROGRAM, TEST, INSTALL, AND OPERATE IN-HOUSE ADP SYSTEMS	O	-	-	-	-	-	-	S
	A	4	PROVIDE CONSULTATION, ASSISTANCE, AND TRAINING ON ADP RELATED ISSUES	O	-	-	-	-	-	-	S
	A	5	ASSIST WITH IMPLEMENTING COMPUTERIZATION OF RESEARCH VESSEL DATA COLLECTION		D	-	S				
8L1C1AJ2	A	6	PROVIDE MANUSCRIPT AND OTHER TEXT PREPARATION AND PROCESSING SERVICES	O	-	-	-	-	-	-	S
8L1C1AJ2	A	7	PROVIDE SCIENTIFIC AND GRAPHIC ILLUSTRATION SERVICES	O	-	-	-	-	-	-	S
8L1C1AJ4	A	8	PROVIDE SCIENTIFIC LIBRARY REFERENCE SERVICES	O	-	-	-	-	-	-	S
8L1C1AJ4	A	9	COMPUTERIZE LIBRARY CARD CATALOG AND MAKE ACCESSIBLE TO THE LAN	O	-	-	-	-	-	-	S

FORM 1

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RESOURCE SUMMARY

TITLE	Fishery Oceanography Research Program				
TASK NAMES ->	8L1A7A00				\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	89.3				89.3
PERS. BENEFITS	11.0				11.0
TRAVEL	3.2				3.2
TRANSPORTATION	2.0				2.0
RENT,COMM.,UTIL.	1.0				1.0
PRINT/REPROD.	0.9				0.9
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	10.0				10.0
EQUIPMENT	6.8				6.8
GRANTS	41.0				41.0
TOTALS ->	165.2				165.2
FTE (FTP)	1.3				1.3
FTE (OTFTP)	1.6				1.6

VESSELS # SEA DAYS ALLOC.	
28	
NOAA	CHARTERS
28	--
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett / RC Fullerton

HQ CONTACT

FORM 2

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
FISHERY OCEANOGRAPHY RES.	HON. LAB.	2.9	165.2	G. BOEHLERT	RESOURCE INFORMATION

A. PROBLEM STATEMENT/OBJECTIVE: TROPICAL ECOSYSTEMS ARE CHARACTERIZED BY RESOURCES WITH RELATIVELY LOW STANDING STOCK AND HIGH VULNERABILITY TO OVEREXPLOITATION. THE FISHERY OCEANOGRAPHY RESEARCH PROGRAM CONDUCTS RESEARCH ON THE ECOLOGY OF FISH AND SHELLFISH RESOURCES OF ISLAND-ASSOCIATED ECOSYSTEMS TO BETTER UNDERSTAND THE EFFECTS OF THE OCEAN ENVIRONMENT ON VARIABILITY IN THESE RESOURCES.

B. METHODOLOGY/APPROACH: THIS PROGRAM WAS NEW IN FY89. WE HAVE DEVELOPED STUDIES OF RECRUITMENT MECHANISMS AND VARIABILITY IN INSULAR RESOURCES RELATIVE TO OCEANOGRAPHY WITH GREATER EMPHASIS ON VARIABILITY IN PHYSICAL OCEANOGRAPHY. ADDITIONAL STUDIES WILL i) TEST SAMPLING GEAR FOR RESEARCH ON LATE LARVAL AND JUVENILE STAGES TO BETTER DESCRIBE THE HABITAT FOR ALL LIFE HISTORY STAGES, ii) APPLY REMOTE SENSING AND PHYSICAL OCEANOGRAPHY SAMPLING TECHNIQUES TO FISHERIES PROBLEMS, AND iii) PUBLISH COOPERATIVE INTERNATIONAL STUDIES OF GROUNDFISH. THE TASK INTERACTS CLOSELY WITH THE NOAA-UNIVERSITY OF HAWAII JOINT INSTITUTE FOR MARINE AND ATMOSPHERIC RESEARCH.

C. PRODUCT/SERVICES: OUTPUT PRODUCTS FROM THIS TASK INCLUDE INFORMATION ON ECOLOGICAL ASSOCIATIONS OF DIFFERENT ISLAND SPECIES AND PROVIDE BASIC DATA USED FOR ECOSYSTEM MODELS, FISHERY MANAGEMENT PLANS, AND ENVIRONMENTAL IMPACT STATEMENTS.

D. CLIENTS: RESULTS OF THE RESEARCH, IN THE FORM OF DATA AND ANALYSIS, WILL BE USED BY OTHER RESEARCH TASKS, THE NMFS SOUTHWEST REGION, THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, THE FISHING INDUSTRY, CONVERVATION GROUPS, PRIVATE CONSULTANTS AND CONTRACTORS, AND STATE OF HAWAII AGENCIES. COOPERATION IN STUDIES OF RECRUITMENT WILL ALSO BENEFIT INTERNATIONAL AGENCIES WITH CURRENT PROGRAMS IN TROPICAL REGIONS.

E. CONTRACTS:
NONE

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. BOEHLERT, GEORGE W.	FISHERY BIOLOGIST RESEARCH	GM-15	25	8L1A7A00
2. MUNDY, BRUCE C.	FISHERY BIOLOGIST RESEARCH	GS-9/3	100	8L1A7A00
PTP:				
1. FUJISAWA, CAROL	BIOLOGICAL AID	GS-4/3	96	8L1A7A00
TEMPORARIES:				
1. WILSON, CHRISTOPHER D.	FISHERY BIOLOGIST	GS-7/3	63	8L1A7A00

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A7A00	E	1	COMPLETE STUDY OF VERTICAL DISTRIBUTION OF ICHTHYOPLANKTON OFF OAHU		M						
	E	2	PUBLISH STUDY OF VERTICAL DISTRIBUTION OF ZOOPLANKTON AROUND OAHU (NRC FELLOW PROJECT)			A					
	M	3	PUBLISH MANUSCRIPT ON HORIZONTAL DISTRIBUTION OF LARVAL FISHES AROUND JOHNSTON ISLAND		J						
	A	4	PLAN AND EXECUTE FIELD STUDIES ON OCEANOGRAPHIC AND RECRUITMENT STUDY AROUND JOHNSTON ISLAND		J	-	A				
	A	5	COLLABORATE WITH JIMAR AND UNIVERSITY OF HAWAII TO ESTABLISH REMOTE SENSING CAPABILITY		J	-	S				
	M	6	PUBLISH PROCEEDINGS OF WORKSHOP ON REPRODUCTION AND EARLY LIFE HISTORY OF SEBASTES.			M					
	E	7	PUBLISH MANUSCRIPT ON VERTICAL DISTRIBUTION OF LARVAL TUNAS AROUND OAHU				S				
	A	8	INTEGRATE USE OF DOPPLER CURRENT PROFILER DATA INTO HL RESEARCH CRUISES	O	-	-	S				

FORM 1

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RESOURCE SUMMARY					
TITLE	Pelagic Stock Assessment Program				
TASK NAMES ->	8L1C5AC0				V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	132.8				132.8
PERS. BENEFITS	18.3				18.3
TRAVEL	5.0				5.0
TRANSPORTATION	1.0				1.0
RENT, COMM., UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	16.0				16.0
SUPPLIES/MATERIAL	10.0				10.0
EQUIPMENT	9.9				9.9
GRANTS	0.0				0.0
TOTALS ->	193.0				193.0
FTE (FTP)	1.9				1.9
FTE (OTFTP)	1.0				1.0

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett / EC Fullerton HQ CONTACT

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
PELAGIC STOCK ASSESSMENT	HON. LAB.	2.9	193.0	J. WETHERALL	RESOURCE INFORMATION

A. PROBLEM STATEMENT/OBJECTIVE: TO PROVIDE QUANTITATIVE ASSESSMENTS OF PELAGIC RESOURCES AND ADVICE REGARDING THE STATUS OF STOCKS TO FISHERY MANAGERS BASED ON THE BEST AVAILABLE DATA. THE TASK FOCUSES ON TUNAS, PARTICULARLY THE STOCKS OF ALBACORE IN THE NORTH PACIFIC AND SOUTH PACIFIC.

B. METHODOLOGY/APPROACH: THE PROGRAM USES FISHERY STATISTICS COLLECTED THROUGH NMFS MONITORING PROGRAMS AND BIOLOGICAL DATA COLLECTED FROM SEA SURVEYS AND EXPERIMENTS. STANDARD ANALYTICAL MODELS OF FISH POPULATION DYNAMICS AND NUMERICAL SIMULATION METHODS ARE USED, BUT NEW STATISTICAL TECHNIQUES AND PROCEDURES ARE DEVELOPED WHERE NECESSARY.

C. PRODUCT/SERVICES: THE PROGRAM ISSUES REPORTS ON THE STATUS OF PELAGIC RESOURCES, INCLUDING ESTIMATES OF YIELD POTENTIALS AND FISHERY INTERACTIONS AND EVALUATIONS OF FISHERY MANAGEMENT OPTIONS BASED ON DATA COLLECTED THROUGH MONITORING PROGRAMS OR SEA SURVEYS. RESOURCES COVERED INCLUDE SOUTH PACIFIC ALBACORE AND VARIOUS PELAGIC RESOURCES IN THE NORTH PACIFIC.

D. CLIENTS: THE PROGRAM SERVES NOAA FISHERIES MANAGERS AND POLICY MAKERS IN NMFS HEADQUARTERS, THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, U.S. TUNA VESSEL OWNERS, HARVESTERS, AND PROCESSORS (PARTICULARLY ALBACORE INTERESTS), AND THE RECREATIONAL FISHING COMMUNITY.

E. CONTRACTS: THE PROGRAM WILL LET CONTRACTS FOR ROUTINE TRANSLATION OF A KEY JAPANESE TUNA INDUSTRY TRADE NEWSLETTER, ANALYSIS OF ALBACORE HARD PARTS REQUIRING SPECIAL EQUIPMENT, AND PART-TIME STUDY SUPPORT.

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. WETHERALL, JERRY A.	SUPERVISORY FISH. BIOLOGIST	GM-14	90	8L1A5AC0
2. YONG, MARIAN Y.Y.	MATHEMATICIAN	GS-11/10	100	8L1A5AC0
TEMPORARIES:				
1. YANO, SHIGERU	RES. LAB. MECHANIC	WG-5/3	100	8L1A5AC0

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1C5AC0	A	1	DEVELOP SIZE/AGE STRUCTURED MODELS OF SOUTH PACIFIC ALBACORE	O	-	-	S				
	E	2	FIRST-CUT SOUTH PACIFIC ALBACORE SURFACE FISHERY YIELD ASSESSMENT	O	J						
	E	3	REFINE AND DESCRIBE SOUTH PACIFIC ALBACORE INDICES OF ADUNDANCE USING LONGLINE STATISTICS	N							
	M	4	ISSUE SOUTH PACIFIC ALBACORE STATUS REPORTS		J		S	J	S	J	S
	A	5	CONDUCT SOUTH PACIFIC ALBACORE FISHERY MONITORING AND BIOLOGICAL SAMPLING PROGRAMS	O	-	-	-	-	-	-	S
	A	6	COMPLETE SOUTH PACIFIC ALBACORE GROWTH ANALYSIS	O	J						
	M	7	COMPLETE MANUSCRIPT ON NUMERICAL MODELS FOR GREEN SEA TURTLE POPULATION DYNAMICS				M				

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE ->	Pelagic Ecosystem Program				
TASK NAMES ->	8L1A6AK0				\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	164.7				164.7
PERS. BENEFITS	20.7				20.7
TRAVEL	4.0				4.0
TRANSPORTATION	0.1				0.1
RENT,COMM.,UTIL.	1.5				1.5
PRINT/REPROD.	0.3				0.3
CONTRACTS	1.5				1.5
SUPPLIES/MATERIAL	17.6				17.6
EQUIPMENT	0.0				0.0
GRANTS	0.0				0.0
TOTALS ->	210.4				210.4
FTE (FTP)	3.0				3.0
FTE (OTFTP)	1.0				1.0

VESSELS # SEA DAYS ALLOC.	
33	
NOAA	CHARTERS
33	
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
BC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
PELAGIC ECOSYSTEM PROGRAM	HON. LAB.	4.0	210.4	C.H. BOGGS	INFO. ANAL. & DISSEMINATION

A. PROBLEM STATEMENT/OBJECTIVE: TO GAIN SUFFICIENT KNOWLEDGE OF TROPICAL TUNA ECOLOGY TO PERMIT THE SCIENTIFIC ASSESSMENT OF STOCKS, FORECASTING OF YIELDS, AND DETECTION OF NEGATIVE IMPACTS NEEDED TO PROPERLY MONITOR FISHERIES IN THE CENTRAL AND WESTERN PACIFIC AND TO IMPROVE HARVEST EFFICIENCY.

B. METHODOLOGY/APPROACH: COLLECT BIOLOGICAL DATA AND OPERATIONS STATISTICS FROM TUNA FISHERIES AND COLLECT BIOLOGICAL SAMPLES FOR MODELS OF STOCK STRUCTURE AND VITAL RATES, EMPHASIZING THE FISHERIES OF HAWAII. CONDUCT EXPERIMENTS AND ASSEMBLE ENVIRONMENTAL DATA TO MODEL THE DYNAMICS OF TUNA STOCKS AND THEIR HABITAT. DESIGN A RESEARCH PROGRAM TO FURTHER DEVELOP ECOLOGICAL MODELS OF ABUNDANCE AND AVAILIABILITY, AND EVALUATE THEM IN RELATION TO ACHIEVING A (ABOVE).

C. PRODUCT/SERVICES: PUBLICATIONS ON TUNA MOVEMENTS AND AVAILABILITY IN RELATION TO ENVIRONMENTAL VARIABLES. 41ST ANNUAL TUNA CONFERENCE, AND PROCEEDINGS (ADMIN. REPORT). PUBLICATIONS ON THE PHYSIOLOGICAL ECOLOGY OF PELAGIC FISHES. ANNUAL FORECAST OF HAWAII SKIPJACK TUNA FISHING CONDITIONS (LEAFLET). PHYSIOLOGICAL-ENVIRONMENTAL INTERFACE MODEL OF TUNA HABITAT AND DISTRIBUTION DYNAMICS (ADM. REPORT).

D. CLIENTS: NATIONAL AND LOCAL GOVERNMENT AGENCIES USE PRODUCTS IN ANALYZING TUNA FISHING POLICIES AND IN DEVELOPING MANAGEMENT PLANS FOR PELAGIC FISHERIES. STUDIES PROMOTE INTERNATIONAL COOPERATION IN RESEARCH AND MANAGEMENT. THE U.S. FISHING INDUSTRY USES PRODUCTS TO IMPROVE HARVEST EFFICIENCY AND MAKE INVESTMENT DECISIONS.

E. CONTRACTS:

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. BOGGS, CHRISTOFER H.	FISHERY BIOLOGIST	GS-12/3	100	8L1A6AK0
2. BRILLS, RICHARD	FISHERY BIOLOGIST	GS-12/7	100	8L1A6AK0
3. CHANG, RANDOLPH K.	FISHERY BIOLOGIST	GS-11/8	100	8L1A6AK0
TEMPORARIES:				
1. CHUN, ALLISON	BIOLOGICAL AID	GS-4/1	100	8L1A6AK0

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A6AK0	M	1	INTERFACE MODEL AND OUTPUT OF PHYSICAL PARAMETERS FOR TESTING YELLOWFIN HABITAT MODEL (5-YR PLAN--CASE 1, STEP 1 (ADM. REPORT))	D					J		J
	E	2	PROVIDE PHYSICAL OCEANOGRAPHIC PARAMETERS TO COAP WITH REQUEST FOR TIME/AREA DELINEATION OF HABITAT VOL. (5 YR PLAN--CASE 1, STEP		J						
	A	3	FIELD STUDY OF LONGLINE CATCH RATES, VERTICAL DISTRIBUTION, HABITAT & GEAR VULNERABILITY OF YELLOWFIN & BIGEYE TUNA		F						
	A	4	CHAIR 41ST ANNUAL TUNA CONFERENCE, EDIT & DISTRIBUTE PROCEEDINGS			M					
	A	5	WRITE AND SUBMIT PAPER ON BLUE MARLIN TRACKING		J						
	M	6	PUBLISH PAPER ON THE VERTICAL & HORIZONTAL MOVEMENTS OF TUNA IN RELATION TO THE ENVIRONMENT AS DETERMINED BY TRACKING		M						
	A	7	ANALYSE MORPHOMETRIC MEASUREMENTS & SIZE FREQUENCE DATA (COLLECTED AT THE FISH AUCTION) ON YELLOWFIN & BIGEYE TUNA, FOR POPULATION MDOELS				J				
	A	8	WRITE AND SUBMIT PAPER ON DOUBLE-TAG TELEMETRY OF TUNA BEHAVIOR & HABITAT USAGE				S				
	M	9	PUBLISH PAPER ON TUNA BIOENERGETICS BASED ON STARVATION DATA				J				
	A	10	REWRITE AND SUBMIT PAPER ON TUNA SWIMMING ENERGETICS MODEL				S				

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

DATE	2 August 1989	
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RESOURCE SUMMARY					
TITLE ->	Pelagic FMP Research Program				
TASK NAMES ->	8L1C2A00				\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	127.8				127.8
PERS. BENEFITS	16.9				16.9
TRAVEL	1.0				1.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	5.6				5.6
EQUIPMENT	0.0				0.0
GRANTS	0.0				0.0
TOTALS ->	151.3				151.3
FTE (FTP)	3.0				3.0
FTE (OTFTP)	0.0				0.0

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett / E.C. Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
PELAGIC FMP RES. PROGRAM	HON. LAB.	3.0	151.3	R.A. SKILLMAN	INFO. ANAL. & DISSEMINATION

A. PROBLEM STATEMENT/OBJECTIVE: IMPROVE THE SCIENTIFIC BASIS FOR EFFECTIVE MANAGEMENT OF PELAGIC MANAGEMENT UNIT SPECIES FISHERIES (BILLFISHES, MAHIMAHI, WAHOO, AND OCEANIC SHARKS) BY DETERMINING BASIC BIOLOGICAL PARAMETERS AND FISHERY INFORMATION, DEVELOPING FISHERY MODELS, AND PROVIDING GUIDANCE TO THE WPRFMC ACCORDINGLY.

B. METHODOLOGY/APPROACH: FISHERY DATA WILL BE COLLECTED FROM PELAGIC FISHERIES IN THE REGION, ENVIRONMENTAL DATA FROM OCEANOGRAPHIC DATA BASES WILL BE ASSEMBLED, AND SAMPLES AND DATA COLLECTED DURING BIOLOGICAL EXPERIMENTS CONDUCTED AT SEA AND ASHORE IN FY 88 WILL BE PROCESSED. MODELS WILL BE DEVELOPED FOR AGE AND GROWTH, SIZE/COHORT COMPOSITION, MORTALITY, REPRODUCTIVE BIOLOGY AND RECRUITMENT, LARVAL DISTRIBUTION, AND STOCK HETEROGENEITY USING STATISTICS, SIZE AND AGE-BASED ASSESSMENT PROCEDURES, AND SYSTEMS ANALYSIS PROCEDURES.

C. PRODUCT/SERVICES: THE PRODUCTS THIS FISCAL YEAR WILL CONSIST OF REPORTS DOCUMENTATING PROGRESS ON MODELING THE DYNAMICS OF THE RESOURCES USING SIZE-BASED STOCK ASSESSMENT TECHNIQUES, THE HETEROGENEITY OF THE STOCKS, ASPECTS OF THEIR REPRRRODUCTIVE BIOLOGY, AND THE DISTRIBUTION OF THEIR LARVAE AROUND HAWAII.

D. CLIENTS: THE PROGRAM SUPPORTS RESOURCES MANAGEMENT BY THE WPRFMC, CONTRIBUTES TO POLICY ANALYSIS BY NOAA FISHERIES, AND INFORMS THE PUBLIC ON MATTERS OF PELAGIC RESOURCES UTILIZATION AND CONSERVATION.

E. CONTRACTS: NONE

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. SKILLMAN, ROBERT A.	SUPERVISORY FISH. BIOLOGIST	GM-13	100	8L1C2A00
2. UCHIYAMA, JAMES H.	FISHERY BIOLOGIST RES.	GS-11/8	100	8L1C2A00
3. SAMPAGA, JEFFREY D.	BIOLOGICAL TECHNICIAN	GS-5/6	100	8L1C2A00

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L1C2A00	A	1	Continue expanded market sampling program	O	-	-	-	-	-	-	S
	A	2	Analyze market data/samples for estimation of vital parameters using age- and sized- based methods	O	-	-	-	-	-	-	S
	E	3	Establish a data base consisting of size measurement data for pelagic management unit species		J						
	E	4	Complete paper on mahimahi stock modeling based on market and fishery data			J					
	E	5	Complete ichehyoplankton habitat work -- issue admin. report describing fine-scale distribution and island effects	N							
	E	6	Issue document analyzing and synthesizing available information on fishing interaction				S				
	A	7	Collaborate with the Pelagic Ecosystem Program's winter experimental longline cruise		J F						

FORM 1

NOAA FISHERIES
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DATE	2 August 1989	
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RESOURCE SUMMARY

TITLE -> Evaluation of Drift Net Impacts on Tunas, Billfishes and Sea Turtles

TASK NAMES ->					
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C5E10				
DIRECT LABOR	38.2				38.2
PERS. BENEFITS	5.1				5.1
TRAVEL	1.0				1.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	0.9				0.9
EQUIPMENT	0.0				0.0
GRANTS	0.0				0.0
TOTALS ->	45.2				45.2
FTE (FTP)	1.1				1.1
FTE (OTFTP)	0.0				0.0

VESSELS # SEA DAYS ALLOC.	
30	
NOAA	CHARTERS
30	
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett / EC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
TRANSITION ZONE ECOSYSTEM	HON. LAB.	1.1	45.2	J. WETHERALL	INFO. ANAL. & DISSEMINATION

A. PROBLEM STATEMENT/OBJECTIVE: HIGH SEAS DRIFTNET FISHERIES TARGETING SQUID AND ALBACORE IN THE NORTH PACIFIC TRANSITION ZONE (NPTZ) ARE A MAJOR CONCERN OF NOAA FISHERIES. IN ACCORDANCE WITH THE 1987 DRIFTNET ACT, RESEARCH MUST BE UNDERTAKEN TO ASSESS AND MONITOR IMPACTS OF THESE FISHERIES. THE PROGRAM'S OBJECTIVE IS TO PLAN AND EXECUTE SCIENTIFIC RESEARCH ON LIVING MARINE RESOURCES OF THE NPTZ, AND IN PARTICULAR TO PROVIDE A BROAD SCIENTIFIC BASIS FOR EVALUATING DRIFTNET IMPACTS ON TUNAS, BILLFISHES, SEA TURTLES, AND OTHER PELAGIC SPECIES OF CRITICAL IMPORTANCE TO CONSTITUENTS IN THE SOUTHWEST REGION.

B. METHODOLOGY/APPROACH:
IDENTIFY AND ADDRESS CRITICAL BIOLOGICAL QUESTIONS THROUGH RESOURCES SURVEYS AND AT-SEA EXPERIMENTS CONDUCTED ABOARD NOAA SHIPS, FOREIGN RESEARCH VESSELS, FOREIGN COMMERCIAL DRIFTNET VESSELS, OR CHARTERED COMMERCIAL FISHING VESSELS. STUDIES WILL LIKELY INCLUDE BASIC LIFE HISTORY DESCRIPTIONS, ESTIMATION OF DRIFTNET CATCHES AND ASSOCIATED MORTALITY OF KEY RESOURCES, MODELING OF ECOSYSTEM STRUCTURE AND INTERACTIONS, AND ASSESSMENT OF OVERALL DRIFTNET IMPACTS. DYNAMICS OF MARINE POPULATIONS IN THE NPTZ WILL BE STUDIED IN RELATION TO PHYSICAL OCEANOGRAPHY OF THE REGION.

C. PRODUCT/SERVICES: THE PROGRAM WILL PRODUCE REPORTS WITH QUANTITATIVE ASSESSMENTS OF FOREIGN DRIFTNET BY-CATCH OF TUNAS, BILLFISHES, AND OTHER RESOURCES, MANUSCRIPTS FOR PUBLICATION IN THE SCIENTIFIC LITERATURE, AND VARIOUS INFORMATION DOCUMENTS TO SUPPORT POLICY EVALUATIONS, INTERNATIONAL NEGOTIATIONS, AND OTHER NOAA FISHERIES MANAGEMENT TASKS.

D. CLIENTS: THE PROGRAM WILL SUPPORT NOAA FISHERIES POLICY AND MANAGEMENT STAFF IN THE SOUTHWEST REGION AND WASHINGTON, D.C., THE WESTERN REGIONAL FISHERIES MANAGEMENT COUNCIL, AND OTHER PARTIES WITH CONCERNS ABOUT THE HIGH SEAS FISHERIES IN THE NPTZ, INCLUDING THE U.S. ALBACORE INDUSTRY.

E. CONTRACTS: NONE

FORM 3

NOAA FISHERIES
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. WETHERALL, JERRY A.	SUPERVISORY FISH. BIOLOGIST	GM-14	10	8L1C5E10
2. SEKI, MICHAEL	FISHERY BIOLOGIST	GS-9/3	100	"

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L1C5E10	A	1	DEVELOP PLANS FOR NPTZ ECOSYSTEM IMPACT ASSESSMENT PROGRAM		J	J					
	A	2	COMPILE INFORMATION ON POMFRET, BLUE SHARK, AND OTHER RESOURCES IN NPTZ AND PREPARE REPORTS			M	-	-	S		
	A	3	DESIGN EXPERIMENTS TO ESTIMATE DRIFTNET ESCAPEMENT MORTALITY		J	A					
	A	4	ESTABLISH NPTZ OCEANOGRAPHIC DATA BASE AND ACCESS SYSTEM		J	-	-	S			
	E	5	CONDUCT AND REPORT ON TC-89-09 SURVEY OF NPTZ	O	M						
	A	6	ANALYZE TC-89-09 RESULTS		J	J					
	M	7	ESTIMATE AND REPORT SQUID DRIFTNET BY-CATCH OF TUNAS & BILLFISHES IN NPTZ USING U.S.-JAPAN OBSERVER DATA		M						
	M	8	COMPLETE REPORT ON NORTH PACIFIC SQUID DRIFTNET RESEARCH STRATEGIC PLAN	O							
	E	9	COMPLETE NOAA TECHNICAL PAPER ON NORTH PACIFIC TRANSITION ZONE OCEANOGRAPHY AND BIOLOGY		F						

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE	INSULAR STOCK_ASSESSMENT				
TASK NAMES ->	8L1C5AH1				\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	182.7				182.7
PERS. BENEFITS	23.7				23.7
TRAVEL	3.0				3.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	0.0				0.0
PRINT/REPROD.	1.6				1.6
CONTRACTS	2.0				2.0
SUPPLIES/MATERIAL	3.0				3.0
EQUIPMENT	3.0				3.0
GRANTS	0.0				0.0
TOTALS ->	219.0				219.0
FTE (FTP)	3.0				3.0
FTE (OTFTP)	3.0				3.0

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
0	--
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
E.C. Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
INSULAR STOCK ASSESSMENT	HON. LAB.	6.0	219.0	D. SOMERTON	INFO. ANAL. & DISSEMINATION

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK ADDRESSES THE PROBLEM OF ASSESSING EXPLOITED INSULAR RESOURCES TO DETERMINE THEIR DEVELOPMENTAL POTENTIAL OR THE EXTENT TO WHICH THEY ARE OVER-FISHED. THE ANALYSES CONDUCTED AND THE INFORMATION PRODUCED CONCERN TROPICAL SLOPE AND NEARSHORE ECOSYSTEMS WITH EMPHASIS ON BOTTOMFISH AND BAITFISH. RESEARCH RESULTS PROVIDE DECISION MAKERS WITH THE INFORMATION NECESSARY TO MANAGE THESE FISHERIES.

B. METHODOLOGY/APPROACH: DATA ARE COLLECTED BY REGULATORY AGENCIES AND ANALYZED BY QUANTITATIVE FISHERIES MODELS TO DETECT UNDERLYING PATTERNS IN GROWTH, MORTALITY, AND COMMUNITY PRODUCTION. RESEARCH DATA ARE ALSO COLLECTED DURING SCIENTIFIC CRUISES TO DETERMINE SPATIAL AND TEMPORAL PATTERNS IN RESOURCES ABUNDANCE, TO DEVELOP ESTIMATES OF BIOMASS, AND TO ACQUIRE BIOLOGICAL SAMPLES FOR LABORATORY ANALYSIS.

C. PRODUCT/SERVICES: ANNUAL REPORTS CONCERNING THE STATUS OF THE BOTTOMFISH FISHERY ARE PRODUCED FOR USE BY THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL. INNOVATIVE METHODOLOGIES AND NOTEWORTHY FINDINGS ARE PUBLISHED IN THE SCIENTIFIC LITERATURE.

D. CLIENTS: THE PRIMARY CLIENTS WILL BE THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, ITS SCIENTIFIC AND STATISTICAL COMMITTEE, AND THE INDUSTRY ADVISORY PANEL. ISLAND GOVERNMENTS THROUGHOUT THE PACIFIC REGION ALSO BENEFIT SUBSTANTIALLY FROM THE RESEARCH CONDUCTED IN THIS TASK.

E. CONTRACTS: CONTRACT FOR COLD STORAGE FOR BAIT AND SCIENTIFIC SPECIMENS.

FORM 3

NOAA FISHERIES
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. SOMERTON, DAVID A.	FISHERY BIOLOGIST RESEARCH	GM-13	100	8L1C5AH1
2. SHIOTA, PAUL M.	FISHERY BIOLOGIST	GS-11/7	100	8L1C5AH1
3. EVERSON, ALAN R.	FISHERY BIOLOGIST	GS-7/5	100	8L1C5AH1
PTP:				
1. WILLIAMS, HAPPY A.	BIOLOGICAL AID	GS-4/4	96	8L1C5AH1
2. LANDGRAF, KEVIN	BIOLOGICAL TECH.	GS-5/2	96	8L1C5AH1
TEMPORARIES:				
1. KOBAYASHI, DONALD R.	BIOLOGICAL TECH.	GS-6/1	100	8L1C5AH1

FORM 4

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CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1C5AH1	A	1	ANALYZE OTOLITHS OF EXPLOITED BOTTOM FISHES	0	-	-	-	-	-	-	S
	A	2	ANALYZE AUCTION LOT STATISTICS FOR BOTTOM FISH ASSESSMENT		F	M		F	M	F	M
	M	3	ISSUE ANNUAL BOTTOMFISH STATUS OF STOCKS REPORT			J			J		J
	E	4	COMPLETE MANUSCRIPT ON STOCK ASSESSMENT OF NEHU				S				
	A	5	COMPLETE NEHU LARVAE AGING STUDIES					D			
	E	6	COMPLETE MANUSCRIPT ON BAITFISHERY CPUE						M		
	E	7	COMPLETE MANUSCRIPT ON THE DESCRIPTION OF LARVAL HETEROCARPUS						J		
	E	8	PUBLISH PAPER ON LOBSTER ESCAPE VENTS CRUISES		J						
	E	9	COMPLETE FISH REARING EXPERIMENT IN LIPOFUSCIN STUDY			M					

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE	Seamount Resources Study				
TASK NAMES ->	8L1A6AE0				V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	89.5				89.5
PERS. BENEFITS	10.5				10.5
TRAVEL	3.0				3.0
TRANSPORTATION	4.0				4.0
RENT, COMM., UTIL.	0.0				0.0
PRINT/REPROD.	1.0				1.0
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	19.7				19.7
EQUIPMENT	0.0				0.0
GRANTS	0.0				0.0
TOTALS ->	127.7				127.7
FTE (FTP)	2.0				2.0
FTE (OTFTP)	1.0				1.0

VESSELS # SEA DAYS ALLOC.	
29	
NOAA	CHARTERS
29	--
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE

HQ CONTACT

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
SEAMOUNT RESOURCES STUDY	HON. LAB.	3.0	127.7	J. POLOVINA	RESOURCE INFORMATION

A. PROBLEM STATEMENT/OBJECTIVE: CERTAIN SEAMOUNTS MAY BE HIGHLY PRODUCTIVE AND SUPPORT COMMERCIAL CONCENTRATIONS OF LIVING RESOURCES. THE SEAMOUNT RESOURCES PROGRAM EMPHASIZES RESEARCH ON THE SEAMOUNTS OF THE CENTRAL NORTH PACIFIC AND THE HAWAIIAN CHAIN. THE FOCUS OF A FISHERY IN THE 1970'S, THESE SEAMOUNTS PRODUCED APPROXIMATELY A MILLION METRIC TONS OF PELAGIC ARMORHEAD. WE SEEK TO UNDERSTAND THE DYNAMICS OF THE RESOURCE AND OF THE ECOSYSTEM WHICH SUPPORTED IT.

B. METHODOLOGY/APPROACH: STOCKS OF ARMORHEAD ARE CURRENTLY DEPLETED BUT COULD SUSTAIN A MODERATE-SCALE FISHERY IF REBUILT; TRAWL FISHERIES WITHIN THE FISHERY CONSERVATION ZNE FOR SEAMOUNT SPECIES HAVE BEEN CLOSED TO FREIGN FISHING AND AN IMPORTANT PART OF THE PROGRAM IS TO MONITOR THE REBUILDING OF THE STOCKS. RESEARCH IN THE TASK INCLUDES COMPONENTS OF STOCK DYNAMICS AND ASSESSMENT, BIOLOGY OF THE IMPORTANT RESOURCES, AND SEAMOUNT ECOLOGY INCLUDING COLLABORATIVE RESEARCH WITH UNIVERSITY RESEARCHERS. IN FY90, WE WILL USE THE FISHERY-INDEPENDENT ASSESSMENT TOOLS WHICH WE DEVELOPED TO MONITOR THE RECOVERY OF THE ARMORHEAD STOCKS. UNDERSTANDING THE RELATIONSHIP OF OCEANOGRAPHY AND STOCK DYNAMICS IS DIRECTED TOWARDS DETERMINING POTENTIAL YIELD, PREDICTING RECRUITMENT, AND DEVELOPING GENERALITIES ABOUT SEAMOUNT PRODUCTIVITY.

C. PRODUCT/SERVICES: OUTPUT PRODUCTS FROM THIS TASK WILL BE USED BY THE SOUTHWEST REGION AND WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL TO DECIDE UPON REGULATORY ACTION ON THE SEAMOUNT FISHERY, CURRENTLY CLOSED TO FOREIGN FISHING. PRODUCTS WILL ALSO BE USED FOR FISHERY MANAGEMENT PLANS AND THE BOTTM FISH/SEAMOUNT GROUNDFISH FISHERY MANAGEMENT PLAN MONITORING REPORT. SINCE SEAMOUNTS IN THE REGION ARE SOURCES OF IMPORTANT MANGANESE CRUSTS CONTAINING STRATEGIC MINERALS, OUR WORK ON THE ECOLOGY OF SEAMOUNTS CAN BE USED BY THE MINERALS MANAGEMENT SERVICE,

D. CLIENTS: CONSERVATION GROUPS, AND PRIVATE CONSULTANTS AND CNTRACTORS TO CONSIDER ENVIRONMENTAL IMPACTS OF MINERAL EXPLOITATION.

RESULTS OF THE RESEARCH, IN THE FORM OF DATA AND ANALYSIS, WILL BE USED BY THE NMFS SOUTHWEST REGION, THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, THE FISHING INDUSTRY, THE

E. CONTRACTS: MINERALS MANAGEMENT SERVICE, CONSERVATION GROUPS, PRIVATE CONSULTANTS AND CONTRACTORS, AND STATE OF HAWAII AGENCIES.

NONE

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. HUMPHREYS, ROBERT JR.	FISHERY BIOLOGIST	GS-9/3	100	8L1A6AE0
2. KIKKAWA, BERT	FISHERY BIOLOGIST	GS-7/6	100	8L1A6AE0
TEMPORARIES:				
1. CROSSLER, MARK	BIOLOGICAL AID	GS-4/1	100	8L1A6AE0

FORM 4

NOAA FISHERIES
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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L1A6AE0	A	1	COLLABORATE WITH UNIVERSITY RESEARCH PROGRAMS AND OTHER DEALING WITH SEAMOUNTS	O	-	-	-	-	-	-	S
	E	2	COMPLETE PAPER ON PELAGIC ECOSYSTEM (ICHTHYOPLANKTON AND MICRO-NEKTON) OVER HANCOCK SEAMOUNT		J						
	E	3	COMPLETE MANUSCRIPT ON LONGLINE TIMER ASSESSMENT TECHNIQUE AND ITS APPLICATION TO FISHERIES RESEARCH	D							
	E	4	COMPLETE MANUSCRIPT ON THE VERTICAL DISTRIBUTION OF ARMORHEAD AND DIURNAL AND SEASONAL VARIABILITY	N							
	M	5	ISSUE ARMORHEAD STATUS OF STOCK REPORT FOR THE BOTTOMFISH/SEAMOUNT SEAMOUNT GROUNDFISH FISHERY MANAGEMENT PLAN MONITORING TEAM			M					
	E	6	COMPLETE STUDY OF PARASITES AS INDICATORS OF RECRUITMENT IN ARMOR-HEAD			J					
	E	7	COMPLETE MANUSCRIPT ON THE FEEDING HABITS OF PELAGIC ARMORHEAD		J						
	A	8	ANALYZE RESEARCH CRUISE DATA TO ESTIMATE THE ABUNDANCE OF ARMOR HEAD ON SE HANCOCK SEAMOUNT	D				M		M	
	A	9	EVALUATE POTENTIAL TO USE ARMORHEAD OTOLITHS TO DETERMINE TIMES THAT ARMORHEAD RECRUIT TO SEAMOUNT	O	-	-	S				
	A	10	COMPLETE STUDY OF THE ECLOGY AND LIFE HISTORY OF SPINY DOGFISH AT HANCOCK SEAMOUNT			M					
	A	11	PRESENT SCIENTIFIC PAPERS ON SEAMOUNT OCEANOGRAPHY AT THE OCEAN SCIENCES MEETING		F						

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE	Fishery Enhancement and Dynamics				
TASK NAMES ->	8L1A4BRS				\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	267.2				267.2
PERS. BENEFITS	33.4				33.4
TRAVEL	6.0				6.0
TRANSPORTATION	2.0				2.0
RENT,COMM.,UTIL.	1.0				1.0
PRINT/REPROD.	0.4				0.4
CONTRACTS	0.0				0.0
SUPPLIES/MATERIAL	30.4				30.4
EQUIPMENT	16.0				16.0
GRANTS	0.0				0.0
TOTALS ->	356.4				356.4
FTE (FTP)	3.0				3.0
FTE (OTFTP)	5.0				5.0

VESSELS # SEA DAYS ALLOC.	
54	
NOAA	CHARTERS
54	--
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
EC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
FISH. ENHANCE. & DYNAMICS	HON. LAB.	8.0	356.4	J. POLOVINA	RESOURCE INFORMATION

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK INVESTIGATES POPULATION DYNAMICS AND RESOURCE ASSESSMENT FOR FISHERY RESOURCES AROUND TROPICAL ISLAND ECOSYSTEMS. FIELD SAMPLING AND QUANTITATIVE METHODS ARE USED TO DEVELOP MANAGEMENT ADVICE FOR HAWAIIAN FISHERIES.

B. METHODOLOGY/APPROACH: FIELD SAMPLING AND QUANTITATIVE MODELS ARE USED TO EXPLAIN AND FORECAST CHANGES WITHIN AND BETWEEN ISLAND ECOSYSTEMS. RESEARCH SAMPLE FOR LOBSTER LARVAE AND JUVENILE SNAPPERS WILL DOCUMENT THE TEMPORAL AND SPATIAL SCALE OF RECRUITMENT PROCESSES FOR THESE RESOURCES. QUANTITATIVE MODELS ARE USED FOR ASSESSMENT AND FORECASTING IN THE LOBSTER FISHERY.

C. PRODUCT/SERVICES: AN ANNUAL STATUS OF LOBSTER STOCKS REPORT IS PRODUCED FOR THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL. ECOLOGICAL AND METHODOLOGICAL RESULTS ARE PUBLISHED IN SCIENTIFIC JOURNALS.

D. CLIENTS: WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL AND ISLAND GOVERNMENTS

E. CONTRACTS: NONE

FORM 3

NOAA FISHERIES
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. POLOVINA, JEFFREY J.	SUPERVISORY MATH. STATISTN	GM-14	100	8L1A4BRS
2. KAZAMA, THOMAS K.	FISHERY BIOLOGIST RES.	GS-11/8	100	8L1A4BRS
3. MOFFITT, ROBERT B.	FISHERY BIOLOGIST RES.	GS-9/5	100	8L1A4BRS
TEMPORARIES:				
1. PARRISH, FRANK A.	BIOLOGICAL TECH.	GS-5/1	100	8L1A4BRS
2. BROMWELL, KARL B.	BIOLOGICAL TECH.	GS-4/1	100	8L1A4BRS
3. YOSHIMOTO, RONALD K.	BIOLOGICAL AIDE	GS-3/1	100	8L1A4BRS
4. BENCO, RONALD A.	COMPUTER PROGRAMMER	GS-7/1	100	8L1A4BRS
5. TBN	FISHERY BIOLOGIST	GS-11/1	100	8L1A4BRS

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A4BRS	E	1	CONDUCT LOBSTER LARVAL RESEARCH CRUISE	N							
	M	2	PRODUCE ANNUAL STATUS OF LOBSTER STOCK REPORT		F						
	E	3	CONDUCT LOBSTER STOCK ASSESSMENT CRUISE			J					
	A	4	COMPLETE MANUSCRIPT ON SPATIAL DISTRIBUTION OF LOBSTER LARVAE				S				
	A	5	CONDUCT STUDY OF SPATIAL AND TEMPORAL DISTRIBUTION OF JUVENILE SNAPPERS	D	M	J	S				
	E	6	COMPLETE MANUSCRIPTS FOR FAO ARTIFICIAL REEF MEETING	D							
	E	7	CONVENE IPFC ARTIFICIAL REEF MEETING			M					
	A	8	COMPLETE ANALYSIS OF HAWAIIAN SHRIMP YIELD AND ISSUE REPORT		J						

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY

TITLE ->	Hawaii Stock Management Program				
TASK NAMES ->					V
OBJECT CLASS	TASK #1 8L1A1A01	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR					
PERS. BENEFITS					
TRAVEL					
TRANSPORTATION					
RENT, COMM., UTIL.					
PRINT/REPROD.					
CONTRACTS	400.0				400.0
SUPPLIES/MATERIAL					
EQUIPMENT					
GRANTS					
TOTALS ->	400.0				400.0
FTE (FTP)	0				0
FTE (OTFTP)					

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett / EC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Hawaii Stock Mgmt Program	Honolulu, HI	0	400.0	G. Boehlert	Resource Survey

A. PROBLEM STATEMENT/OBJECTIVE: Recent evidence has documented declines in Hawaii's nearshore fisheries resources; in response, a research initiatives have been developed to determine the causes of this decline and to take remedial action. Issues of concern include habitat degradation or change, pollution, and changes in marine resource availability. The Hawaii Stock Management Program is being developed to address problems confronting the coastal marine environment. Objectives will be aimed at strengthening the understanding of nearshore fishery resources and developing strategies to reverse apparent stock declines through improved management of the stock and habitat.

B. METHODOLOGY/APPROACH: Innovative research on nearshore fishery resources of importance to recreational and commercial fishermen in Hawaii will be solicited through announcement of availability of funds in the Federal Register and CBD. Research topics of interest for this program include, but are not limited to population dynamics of nearshore resources, stock assessment, conservation and management of resources, enhancement of important stocks, habitat quality and changes in habitat availability, ecological studies of carrying capacity, analysis of larval and juvenile habitat requirements, resource user conflicts and economic research, and improvements to fisheries data collection and management.

C. PRODUCT/SERVICES: With new scientific findings from this research, NMFS will be able to assist the State of Hawaii and its local government to develop strategies to reverse apparent stock declines through improved management of the stock and habitat.

D. CLIENTS: State and local government, recreational and commercial fishery industries in Hawaii and the U. S.

E. CONTRACTS: Contract, grants and cooperative agreements will be used to fund research projects.

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY

TITLE ->	Fishery Management Research Program				
TASK NAMES ->	8L1C2AP0	8L1C2AP1			\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	219.0	11.5			230.5
PERS. BENEFITS	28.6	1.5			30.1
TRAVEL	4.8	0.0			4.8
TRANSPORTATION	0.0	0.0			0.0
RENT,COMM.,UTIL.	0.1	55.5			55.6
PRINT/REPROD.	0.0	0.0			0.0
CONTRACTS	9.2	2.0			11.2
SUPPLIES/MATERIAL	2.5	2.3			4.8
EQUIPMENT	1.4	1.0			2.4
GRANTS	0.0	0.0			0.0
TOTALS ->	265.6	73.8			339.4
FTE (FTP)	5.0	0.0			5.0
FTE (OTFTP)	2.6	0.8			3.4

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett / EC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
KEWALO RESEARCH FACILITY	HON. LAB.	0.8	73.8	R.F. SUMIDA	INFO. ANALYSES & DISSEMINATION

A. PROBLEM STATEMENT/OBJECTIVE: TO SUPPORT OTHER TASKS AT THE HONOLULU LABORATORY BY PROVIDING THE PHYSICAL PLANT FOR RESEARCH ON MONK SEALS, TUNAS, BOTTOM FISHES, AND OTHER MARINE SPECIES. TO PROVIDE DOCKSIDE PRESENCE FOR FISHERY MANAGEMENT MONITORING ACTIVITIES OF FMRP.

B. METHODOLOGY/APPROACH: THE RESEARCH PROJECTS OF THE VARIOUS TASKS AT THE HONOLULU LABORATORY WHO USE THE KEWALS RESEARCH FACILITY (KRF) ARE DESIGNED TO PROVIDE INFORMATION FOR THE IMPROVEMENT OF BIOLOGICAL MODELS USED AS A BASIS FOR MONITORING, MANAGEMENT, AND DEVELOPMENT OF VARIOUS FISHERIES. KRF IS ALSO UTILIZED BY FMRP SHORESIDE SAMPLERS AS A BASE OF OPERATION.

C. PRODUCT/SERVICES: RESULTS OF THESE RESEARCH ARE USED BY FISHERY SCIENTISTS AND RESOURCE MANAGERS TO PRODUCE MORE ACCURATE ASSESSMENTS AND MANAGEMENT ANALYSES.

D. CLIENTS: THE RESULTS OF ALL RESEARCH DONE AT KRF SUPPORT THE NEEDS OF NMFS PLICYMAKERS, WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, AND ISLAND GOVERNMENTS THROUGHOUT THE PACIFIC REGION.

E. CONTRACTS: REFUSE COLLECTION

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
FISHERY MGMT. RES. PROGRAM	HON. LAB.	7.6	265.6	S. POOLEY	INFO. ANALYSES & DISSEMINATION

A. PROBLEM STATEMENT/OBJECTIVE: TO BE THE FOCAL POINT FOR PROVIDING SCIENTIFIC INFORMATION TO THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL. TO COLLECT FISHERIES DATA FOR BIOLOGICAL AND ECONOMIC RESEARCH ON PACIFIC OCEANIC FISHERIES. TO UNDERTAKE ECONOMIC RESEARCH ON PACIFIC OCEAN FISHERIES.

B. METHODOLOGY/APPROACH: FISHERIES MONITORING INVOLVES COLLECTION AND COMPILATION OF FISHERY AND MARKET DATA FOR MFCMA AND TUNA FISHERIES. DATA INCLUDE LOG BOOK PROGRAMS, SHORESIDE SAMPLING, AND SPECIAL SURVEYS. FISHERIES RESEARCH INVOLVES PARTICIPATION IN MANAGEMENT TECHNICAL BODIES SUCH AS PLANNING TEAMS) AND PREPARATION OF SPECIAL FISHERIES OPERATIONAL AND STATUS REPORTS. FISHERIES ECONOMIC RESEARCH INVOLVES COST-EARNINGS STUDIES OF VESSELS, INVESTIGATION OF SEAFOOD MARKET FLOWS CONDUCTING RECREATIONAL FISHERIES VALUATION STUDIES, AND EVALUATING REGULATORY REGIMES.

C. PRODUCT/SERVICES: ANNUAL AND PERIODIC MONITORING REPORTS ON STATUS OF MAJOR FISHERIES. ECONOMIC RESEARCH STUDIES. CONSOLIDATED FISHERY RESEARCH DATA SETS.

D. CLIENTS: PRIMARY: WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL AND HL INSULAR AND PELAGIC RESEARCH INVESTIGATIONS. SECONDARY: STATE AND TERRITORIAL FISHERY, COASTAL ZONE, AND ENVIRONMENTAL AGENCIES; UNIVERSITY OF HAWAII; OTHER NMFS FACILITIES; PRIVATE INDUSTRY.

E. CONTRACTS: EQUIPMENT REPAIR AND MAINTENANCE. UNIVERSITY OF HAWAII COLLABORATION STUDENT RESEARCH PROGRAM (SEA GRANT MARINE OPTION PROGRAM).

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. POOLEY, SAMUEL G.	INDUSTRY ECONOMIST	GM-13	100	8L1C2AP0
2. SUMIDA, RAY F.	FISHERY BIOLOGIST	GS-11/8	100	8L1C2AP0
3. CLARKE, RAYMOND P.	FISHERY BIOLOGIST	GS-7/2	100	8L1C2AP0
4. KAWAMOTO, KURT E.	BIOLOGICAL TECH.	GS-6/2	100	8L1C2AP0
5. ITO, RUSSEL Y.	BIOLOGICAL TECH.	GS-6/1	100	8L1C2AP0
TEMPORARIES:				
1. CZYS, JOHN J.	BIOLOGICAL AID	GS-4/1	65	8L1C2AP0
2. YOSHIMOTO, STACEY	COMPUTER AID	GS-4/1	100	8L1C2AP0
3. TBN (VICE TODOKI)	COMPUTER PROGRAMMER	GS-5/1	100	8L1C2AP0
4. ASAGI, LANCE S.	BIOLOGICAL AID	GS-3/1	75	8L1C2AP1

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1C2AP0	A	1	COLLECT AND COMPILE BIOLOGICAL, VESSEL OPERATIONAL, ENVIRONMENTAL, ECONOMIC DATA FROM COMMERCIAL & RECREATIONAL FISHERIES	O	-	-	-	-	-	-	S
	M	2	ISSUE ANNUAL FISHERY REPORTS AND MODULES (BOTTOMFISH, PELAGIC & LOBSTER, WESTERN PACIFIC TUNA)			A	J	A	J	A	J
	E	3	INTEGRATE HAWAII FISHERIES MONITORING DATA BASES				S				
	A	4	CONDUCT ECONOMIC RESEARCH AND COMPLETE MANUSCRIPTS FOR PUBLICATION	O	-	-	-	-	-	-	S
	A	5	PARTICIPATE IN COUNCIL SCIENTIFIC COMMITTEES AND SERVE AS PRINCIPAL LABORATORY LIAISON	O	-	-	-	-	-	-	S
	A	6	PARTICIPATE IN DEVELOPING LABORATORY PROGRAM ON FISHERY INTERACTIONS	O	-	-	-	-	-	-	S
8L1C2AP1	A	7	COORDINATE DOCKSIDE SUPPORT OPERATIONS FOR LABORATORY	O	-	-	-	-	-	-	S

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE ->	MARINE MAMMALS & ENDANGERED SPECIES				
TASK NAMES ->	8L1A3VW0	8L1A3VW1			\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	210.5	49.9			260.4
PERS. BENEFITS	27.4	6.6			34.0
TRAVEL	7.0	1.3			8.3
TRANSPORTATION	0.5	0.0			0.5
RENT,COMM.,UTIL.	0.5	0.0			0.5
PRINT/REPROD.	0.0	0.0			0.0
CONTRACTS	5.0	6.5			11.5
SUPPLIES/MATERIAL	34.1	3.4			37.5
EQUIPMENT	0.0	5.5			5.5
GRANTS	0.0	0.0			0.0
TOTALS ->	285.0	73.2			358.2
FTE (FTP)	2.5	1.0			3.5
FTE (OTFTP)	3.6	0.5			4.1

VESSELS # SEA DAYS ALLOC.	
20	
NOAA	CHARTERS
20	
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
RC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
MAR. MAMMAL & END. SPECIES	HON. LAB.	7.6	358.2	W.G. GILMARTIN	RESOURCE INFORMATION

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK MONITORS THE HAWAIIAN MONK SEAL AND SEA TURTLE POPULATIONS, PERFORMS RESEARCH TO IDENTIFY IMPEDIMENTS TO RECOVERY OF THESE ENDANGERED AND THREATENED SPECIES, AND EXPERIMENTS WITH RECOVERY ACTIONS DIRECTED AT INCREASING THE POPULATION SIZE. THE NMFS IS RESPONSIBLE FOR THIS WORK UNDER THE MARINE MAMMAL PROTECTION ACT AND THE ENDANDERED SPECIES ACT. EFFORTS INCLUDE IMPLEMENTATION OF THE RECOVERY PLAN FOR THE MONK SEAL AND THE DRAFT RECOVERY PLAN FOR HAWAIIAN SEA TURTLE.

B. METHODOLOGY/APPROACH:
THE PRINCIPAL RESEARCH IN THIS TASK IS PERFORMED BY FIELD TEAMS AT BREEDING SITES IN THE NORTH-WESTERN HAWAIIAN ISLANDS AND TURTLE FORAGING PASTURES IN THE MAIN HAWAIIAN ISLANDS. FLIPPER TAGS ARE USED TO COLLECT DATA ON SURVIVAL, REPRODUCTION, GROWTH RATE MOVEMENTS, POPULATION SIZE, AND COMPOSITION. SOME MONK SEAL PUPS ARE COLLECTED FOR TEMPORARY CAPTIVE MAINTENANCE TO INCREASE SURVIVORSHIP. REHABILITATION OF SOME 1989 PUPS WILL CONTINUE AND THESE WILL BE RELEASED IN THE SPRING OF 1990. ASSESSMENTS ARE ALSO CONDUCTED OF SEA TURTLES IN COASTAL WATERS OF THE MAIN ISLANDS.

C. PRODUCT/SERVICES: POPULATION DATA, IMPEDIMENTS TO RECOVERY WHICH ARE IDENTIFIED, AND RECOVERY METHODOLOGIES ARE SUMMARIZED INTO TECHNICAL REPORTS.

D. CLIENTS: THE PRIMARY CLIENTS ARE THE NMFS, MARINE MAMMAL COMMISSION, FISH AND WILDLIFE SERVICE, AND HAWAIIAN MONK SEAL AND HAWAII SEA TURTLE RECOVERY TEAMS. THE CLIENTS USE THE PRODUCTS TO RECOMMEND AND PLAN FUTURE RESEARCH, INITIATE MANAGEMENT STRATEGIES, AND TAKE APPROPRIATE RECOVERY ACTIONS TO ENHANCE THE SPECIES SURVIVAL STATUS.

E. CONTRACTS: DETERMINATION OF PATERNITY OF MONK SEAL PUPS AT LAYSAN ISL. ($5K); VIRALAND PARASITE ETILOGY OF TUMORS IN GREEN TURTLES ($3.5K); COMMERCIAL FISHERMAN INCIDENTAL TURTLE TAGGING ($2.5K); IDENTIFICATION OF TURTLE STOMACH CONTENTS ($0.5K)

FORM 3

NOAA FISHERIES
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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
FTP:				
1. GILMARTIN, WILLIAM G.	WILLDLIFE BIOLOGIST	GM-14	100	8L1A3VW0
2. HENDERSON, JOHN R.	WILDLIFE BIOLOGIST	GS-11/4	100	8L1A3VW0
3. BALAZS, GEORGE H.	WILDLIFE BIOLOGIST	GS-11/6	100	8L1A3VW1
4. VACANT (VICE GERRODETTE)	FISHERY BIOLOGIST	GS-12/1	50	8L1A3VW0
TEMPORARIES:				
1. BECKER, BRENDA L.	WILDLIFE BIOLOGIST	GS-7/1	100	8L1A3VW0
2. JOHANOS-KAM, THEA C.	WILDLIFE BIOLOGIST	GS-7/1	50	8L1A3VW0
3. SWENSON, HENRY J.	COMPUTER CLERK	GS-4/1	60	8L1A3VW0
4. CRAIG, MICHELL	BIOLOGICAL TECH.	GS-5/1	100	8L1A3VW0
5. TBN	BIOLOGICAL TECH.	GS-5/1	50	8L1A3VW0
6. TBN	BIOLOGICAL AID	GS-4/1	50	8L1A3VW1

FORM 4

NOAA FISHERIES
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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A3VW0	A	1	CONDUCT KURE ATOLL MONK SEAL PUP HEAD START PROJECT, RELEASE PUPS				S				
	A	2	CONDUCT MONK SEAL POPULATION MONITORING (INCLUDING PUP TAGGING) AT KURE ATOLL, LAYSAN ISL. AND LISIANSKI ISL.		M	-	A				
	A	3	CONDUCT PUP TAGGING AT PEARL AND HERMES REEF AND FRENCH FRIGATE SHOALS		M	-	A				
	E	4	CONDUCT HAWAIIAN MONK SEAL RECOVERY TEAM MEETING (IF SWR FUNDING PERMITS)	O							
	E	5	COMPLETE MANUSCRIPT OF IMMATURE MONK SEAL SURVIVAL FOR JOURNAL PUBLICATION			M					
	E	6	PUBLISH MONK SEAL AGE OF FIRST BIRTH MANUSCRIPT	D							
	E	7	PUBLISH ESTIMATION OF MONK SEAL POPULATION SIZE		M						
8L1A3VW1	E	8	CONDUCT MONITORING AND TAGGING OF MIGRATORY BREEDING POPULATION OF GREEN TURTLES AT FRENCH FRIGATE SHOALS. DEVELOP ESTIMATE OF NUMBER OF NESTING FEMALES				S				
	E	9	SUMMARY REPORT ON VIRUS ETIOLOGY OF TUMORS IN HAWAIIAN GREEN TURTLES				S				
	A	10	CONDUCT MONITORING AND TAGGING OF GREEN TURTLES IN MARINE HABITATS OF THE MAIN HAWAIIAN ISLANDS		M	-	A				
	A	11	IMPLEMENT INTERAGENCY RESEARCH AS OUTLINED IN THE HAWAIIAN HAWKS-BILL RECOVERY PLAN	O	-	-	S				

FORM 4

NOAA FISHERIES
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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90				91		92	
				1	2	3	4	1	2	1	2
8L1A5B7G	A	12	CATALOG AND DESTROY DEBRIS CAPABLE OF ENTANGLING SEAL/TURTLES ON NWHI BEACHES		M	-	A				
8L1A3VW0	E	13	COMPLETE MANUSCRIPT ON MONK SEAL POPULATION SIZE, SUBMIT TO JOURNAL FOR PUBLICATION		J						

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE ->	Tiburon Lab. Mgmt. Fund				
TASK NAMES ->	MGMT FUND	LIBRARY	MAINTENANCE		V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	9WGN40T2	9WGN40T3	9WGN40T4		
DIRECT LABOR	128.0	29.4	31.4		188.8
PERS. BENEFITS	20.7	4.8	5.1		30.6
TRAVEL	4.0				4.0
TRANSPORTATION	.6				.6
RENT,COMM.,UTIL.	12.5		21.5		34.0
PRINT/REPROD.	.4				.4
CONTRACTS	8.1	2.5	16.0		26.6
SUPPLIES/MATERIAL	10.0	7.5	12.5		30.0
EQUIPMENT	3.8				3.8
GRANTS					
TOTALS ->	188.1	44.2	86.5		318.8
FTE (FTP)	5.3	1.0	1.0		7.3
FTE (OTFTP)	.8				.8

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
EC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
MANAGEMENT FUND	TIBURON, CA	7.3	318.8	A. MacCALL	Management Fund

A. PROBLEM STATEMENT/OBJECTIVE: To provide overall management and administration of both human and fiscal resources for the Tiburon Laboratory.

B. METHODOLOGY/APPROACH: Provide guidance for overall operations and scientific program of Tiburon Laboratory. Maintain and improve internal controls and streamline operating procedures.

C. PRODUCT/SERVICES: Provide efficient day-to-day administration of the Tiburon Laboratory in areas of procurement, personnel and facility maintenance; flow of information/products to outside agencies and the public.

D. CLIENTS: Southwest Region, Pacific Regional Fisheries Management Council, fishing industry, general public.

E. CONTRACTS:

FORM 3

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
MacCall, A.	Acting Director	GM/15	50	9WGN40T2
Lee, L.	Secretary	GS/06/08	100	9WGN40T2
Yokota, I.	Administrative Officer	GS/09/03	100	9WGN40T2
Rowland, D.	Adminsitrative Clerk	GS/05/03	100	9WGN40T2
Mays, B.	Clerk-Typist	GS/04/02	100	9WGN40T2
Mavrantonis. E.	Secretary-Typing	GS/05/07	80	9WGN40T2
Woods, M.	Librarian	GS/09/08	100	9WGN40T3
Munoz, A.	Maintenanceman	WG/09/05	100	9WGN40T4

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NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE ->	Groundfish Anal. Invest.				
TASK NAMES ->	GF ANALYSIS				V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C2AM0				
DIRECT LABOR	289.8				289.8
PERS. BENEFITS	45.6				45.6
TRAVEL	7.8				7.8
TRANSPORTATION	1.0				1.0
RENT, COMM., UTIL.	0.3				0.3
PRINT/REPROD.	0.5				0.5
CONTRACTS	2.0				2.0
SUPPLIES/MATERIAL	11.4				11.4
EQUIPMENT	5.5				5.5
GRANTS					
TOTALS ->	363.9				363.9
FTE (FTP)	8.0				8.0
FTE (OTFTP)	1.35				1.35

VESSELS # SEA DAYS ALLOC.	
49	
NOAA	CHARTERS
49	0
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
BC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
GROUNDFISH ANALYSIS	TIBURON, CA	9.35	363.9	WILLIAM LENARZ	INFO. ANALYSIS & DISSEMINATION

A. PROBLEM STATEMENT/OBJECTIVE: This task provides information needed to implement the groundfish plan of the Pacific Fishery Management Council. The requirements are defined by the Groundfish team and S&S Committee of the Council and through consultation with members of the scientific and fishing industry communities. Results of the work are provided to the Council to aid it in plan implementation decisions.

B. METHODOLOGY/APPROACH: Fishery dependent data are collected by a cooperative port sampling program with the state of California. Adults of these species are aged as part of a coastwide cooperative program. Fishery independent data are collected on the recruitment of rockfish using a NOAA vessel. Stock assessments and other analytical studies are done using the above data, and the PACFIN database and fishery independent data collected by the NWAFC. Simulation modeling is often used to evaluate management strategies. A staff member is on the Groundfish Management Team and works closely with the staff of the NWAFC and other agencies.

C. PRODUCT/SERVICES: Stock assessments are incorporated in the Council's Annual Stock Status document. (Technical evaluation of potential impacts of proposed regulations are incorporated in Groundfish Team documents.) In addition the staff regularly publishes in peer reviewed journals and administrative reports and present talks at scientific meetings.

D. CLIENTS: The main clients are the Pacific Fishery Management Council and its entities. (Several members of the staff often respond to requests for information by the fishing industry and other scientists.

E. CONTRACTS:

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CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Lenarz, William H.	Fishery Biologist	GM 14	100	8L1C2AMO
2. Ralston, Steven	Fishery Biologist	GM 13	"	"
3. Bence, James	Mathematical Statistician	GS 12/1	"	"
4. Hightower, Joseph	Fishery Biologist	GS 12/3	"	"
5. Wyllie-Echeverria Tina	Fishery Biologist	GS 11/5	10	"
6. Reilly, Carol	Biological Technician	GS 7/5	100	"
7. Woodbury, David	Biological Technician	GS 7/3	"	"
8. Pearson, Donald	Biological Technician	GS 5/2	"	"
9. McBride, Anne	Biological Technician	GS 5/2	"	"
10. Laidig, Thomas	Biological Aid	GS 4/1	"	"
11. Sakuma, Keith	Biological Technician	GS 5/1	25	"

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MILESTONE ARRAY

TASK #	SEQ	MAE	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 89				90		91	
				1	2	3	4	1	2	1	2
8L1C2AM0	1	M	Update and submit status of stocks reports for groundfish for PFMC	N				X		X	
"	2	M	Annual Tiburon Laboratory recruitment study report		M			X		X	
"	3	E	Report on sablefish otolith measurements			J					
"	4	E	Report on catch-at-age analysis simulation study			J					
"	5	M	Report on sample requirements for validation of recruit survey		J						
"	6	E	Report on analysis of rockfish length composition data				A				
"	7	E	Report on factors affecting catch rates of juvenile rockfish		M						
"	8	E	Implementation of improvements in juvenile rockfish database management system		J						
"	9	A	Juvenile Rockfish Survey			M					

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY					
TITLE ->	Groundfish Communities				
TASK NAMES ->	GROUNDFISH				V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A3AP0				
DIRECT LABOR	225.7				225.7
PERS. BENEFITS	34.9				34.9
TRAVEL	6.0				6.0
TRANSPORTATION	0.5				0.5
RENT,COMM.,UTIL.					
PRINT/REPROD.	1.0				1.0
CONTRACTS	1.5				1.5
SUPPLIES/MATERIAL	4.0				4.0
EQUIPMENT	2.0				2.0
GRANTS					
TOTALS ->	275.6				275.6
FTE (FTP)	7.0				7.0
FTE (OTFTP)					

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
EC Fullerton

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FORM 2

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
GROUNDFISH COMMUNITIES	TIBURON	7.0	275.6	E. HOBSON	RESOURCE INFORMATION

A: PROBLEM STATEMENT/OBJECTIVE: Task identifies effects of natural change in the marine environment on the distribution, abundance and relative year class strength of groundfish species. Knowledge and understanding of those effects is required before the effects of human activities on these species or their environment can recognized.

B. METHODOLOGY/APPROACH: Effects of environmental change are measured at established sites near shore and on the continental shelf and slope. Emphasis is on interspecific relations, especially between predator and prey, and on relative success of recruitment. Regular assessments are made with a variety of sampling devices and by visual observations where feasible. Trophic relations are determined by visual observations and study of diet, with results undergoing rigorous peer review.

C. PRODUCT/SERVICES: Major products are published papers, reports and stock-assessment documents presented to the Pacific Fishery Management Council.

D. CLIENTS: Clients include fishery managers, Pacific Fishery Management Council, researchers and others with need to understand, or interest in, the dynamics of marine ecosystems, particularly those of the U.S.Pacific Coast.

E. CONTRACTS: None

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. Edmund Hobson	Fishery Biologist	GM 14	100	8L1A3AP0
2. Peter B. Adams	Fishery Biologist	GS 12/5	100	"
3. James R. Chess	Fishery Biologist	GS 12/5	100	"
4. Daniel F. Howard	Fishery Biologist	GS 7/3	100	"
5. Wayne M. Samiere	Biological Technician	GS 6/2	100	"
6. Kelly Silberberg	Biological Technician	GS 5/4	100	"
7. Mwenda Kudumu	General Biologist	GS 5/1	100	"

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MILESTONE ARRAY

TASK #	SEQ	MAE	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 89 1	FY 89 2	FY 89 3	FY 89 4	90 1	90 2	91 1	91 2
8L1A3APO	1	M	Produce assessment of relative strength of current-year recruitment in Sebastes Spp.		M			M		M	
"	2	A	Conduct visual assessments and sample predator diets to measure strength of current-year recruitment.			X	X		X		X
"	3	A	Study influence of trophic relations on relative strength of current-year recruitment.	X	X	X	X	X	X	X	X
"	4	A	Monitor charges in nearshore groundfish communities.	X	X	X	X	X	X	X	X
"	5	E	Present results of study of long-term change in groundfish community at Scientific Meeting.			J					
"	6	E	Produce for publication MS on long-term change in groundfish community.						S		
"	7	A	Develop mortality and survival estimates for YOY Sebastes Mystinus.	X	X	X	X				
"	8	E	Present mortality and survival estimates at scientific meeting.					O			
"	9	A	Continue analysis of lingcod fishery based on PACFIN database.	X	X	X	X	X			
"	10	A	Continue study of age validation in lingcod.	X	X	X	X	X	X	X	X
"	11	A	Continue analysis of spatial distribution and trophic relations of deep-slope groundfishes.	X	X	X	X	X	X	X	X

FORM 1

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RESOURCE SUMMARY

TITLE ->	Physiological Ecology of GF				
TASK NAMES ->	Physiology				\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1A3AT0				
DIRECT LABOR	226.0				226.0
PERS. BENEFITS	36.6				36.6
TRAVEL	7.0				7.0
TRANSPORTATION	0.5				0.5
RENT,COMM.,UTIL.	3.0				3.0
PRINT/REPROD.	0.5				0.5
CONTRACTS	15.4				15.4
SUPPLIES/MATERIAL	5.0				5.0
EQUIPMENT	6.0				6.0
GRANTS					
TOTALS ->	300.0				300.0
FTE (FTP)	6.0				6.0
FTE (OTFTP)					

VESSELS # SEA DAYS ALLOC.	
47	
NOAA	CHARTERS
	12
# FREE DAYS	
35	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
PHYSIOLOGICAL ECOLOGY	TIBURON	6.0	300.0	J. WHIPPLE	RESOURCE INFORMATION

A. PROBLEM STATEMENT/OBJECTIVE: Managers need to understand how natural environmental factors and management can affect fish stocks. This task examines functional relationships between fishes and their host environments. Research consists of multidisciplinary, integrated studies designed to determine the inherent and environmental factors most affecting health (condition) growth, behavior and reproduction in important groundfish populations. The major goal is to understand, describe and explain how fish respond to changes in habitats and the implications these interactions have for management. The specific goal is to contribute to the assessment of groundfish stocks and to forecast recruitment several years in advance.

B.METHODOLOGY/APPROACH: Research includes comprehensive examinations and analyses of adult and juvenile specimens collected from commercial and sport groundfish fleets, from chartered fishing vessels and cruises aboard the NOAA ship, David Starr Jordan. Efforts are focused on important rockfish species: yellowtail, boccaccio and widow rockfish (*Sebastes flavidus*, *S. paucispinus*, *S. entomelas*). Earlier emphasis was on rockfish off Cordell banks, California. Later studies are being expanded to compare California rockfish to populations off the Northwest Coast. --Scientific information from analyses and supportive laboratory experiments are used to determine the most important characteristics of condition and reproduction to form measures of health and effective growth and fecundity. Studies include examinations of reproduction, gametogenesis, development, proximate analysis of tissues, estimates of disease and parasite damage, and determination of lipid cycles and other serum nutrients.
-- Results of the research are combined with oceanographic condition, reproductive variability and to place the species within the context of their habitats.

C. PRODUCT/SERVICES: Products of this research include written scientific reports and manuscripts, presentations at meetings, conferences, lectures and seminars. The products will contribute to the efficiency and long term variability of the fishery. Secondary outcomes are expected to provide management an efficient means to monitor the health of different stocks, year class production and to determine factors producing poor fishery products.

D. CLIENTS: Primary user of the research products are managers of the PFMC and other elements concerned with the groundfish fishery. Other users include researchers and fishery managers who need to know how fish growth, condition, survival and reproduction is affected by environmental and management factors.

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Physiology	TIBURON	6.0	300.0	J. WHIPPLE	

FORM 2 (CON'T)

E. CONTRACTS: University of California at Davis receives $2.0K for pathological analyses.. The F/V New Sea Angler receives approximatley $12,000 in payment for charter services to collect specimens. The remaining $4.0K will be used for chartering additional trips in the Northwest.

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
1. J. WHIPPLE	CHIEF, PHYSIOLOGICAL ECOLOGY	GM 14	100	8L1A3AT0
2. M. ELDRIDGE	SUPERVISORY FISHERIES BIOLOGIST	GM 13	100	"
3. R. MACFARLANE	FISHERY BIOLOGIST (RES)	GS 12/7	100	"
4. M. BOWERS	FISHERY BIOLOGIST (RES)	GS 7/8	100	"
5. B. JARVIS	BIOLOGY TECHNICIAN	GS 9/6	100	"
6. E. NORTON	BIOLOGY TECHNICIAN	GS 6/3	100	"

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MILESTONE ARRAY

TASK #	MAE	SEQ	MAJOR MILESTONES, ACTIVITIES, AND EVENTS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L1A3AT0	E	1	Complete data analyses of yellowtail rockfish studies; juveniles and adults.		X						
"	M	2	Complete manuscripts on physiological and nutritional condition, and reproductive performance.		X						
"	E	3	Complete report on effective fecundity of yellowtail, widow and bocaccio rockfishes in relation to selected condition factors.				X				
"	A	4	Conduct spatially expanded survey of both hook-and-line and trawled yellowtail rockfish populations.	X	X	X	X	X	X	X	X
"	A	5	Complete laboratory examinations and analyses of these specimens.	X	X	X	X	X	X	X	X
"	E	6	Prepare summarizations and analyses of survey data on environmental factors, condition and reproductive performance.			X			X		X
"	A	7	Continue fecundity studies of yellowtail, widow, and bocaccio rockfishes.	X	X			X		X	
"	A	8	Continue research on assessment of condition of YOY rockfishes in cooperation with other GF tasks.			X	X		X		X
"	A	9	Continue laboratory studies of parturition, growth, and development of yellowtail rockfish.	X	X	X	X	X	X	X	X
"	M	10	Complete summary of annual results of PEI work for inclusion in Annual Rockfish Recruitment Report.		X			X		X	
"	M	11	Complete manuscript presented at Honolulu Symposium on "Reproduction and Early Life History in the Genus Sebastes."	X							

FORM 1

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RESOURCE SUMMARY

TITLE ->	Research & Tech. Support				
TASK NAMES ->	Dir Off Res				\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C3A00				
DIRECT LABOR	215.1				215.1
PERS. BENEFITS	34.8				34.8
TRAVEL	8.5				8.5
TRANSPORTATION					
RENT, COMM., UTIL.					
PRINT/REPROD.	1.4				1.4
CONTRACTS	2.0				2.0
SUPPLIES/MATERIAL	13.3				13.3
EQUIPMENT	13.6				13.6
GRANTS					
TOTALS ->	288.7				288.7
FTE (FTP)	4.5				4.5
FTE (OTFTP)					

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
E C Fullerton

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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
DIRECTOR'S OFFICE RESEARCH	TIBURON, CA	4.5	288.7	A. MACCALL	INFO. ANAL. & DISSEMINATION

A. PROBLEM STATEMENT/OBJECTIVE: This task provides scientific expertise, analysis and information on a broad range of fishery subjects relevant to fisheries off the west coast of the U.S., especially off central and northern California where the Tiburon Laboratory is located. Subject areas include 1) groundfish and their fisheries, 2) fisheries other than groundfish, such as salmon, 3) fisheries and habitat in San Francisco Bay and the Gulf of the Farallons, especially with regard to effects of dredge spoil disposal, 4) improvement of understanding and analytic methodologies for fishery and ecosystem management.

B. METHODOLOGY/APPROACH: This task is multidisciplinary, including quantitative fishery and ecosystem analysis, economic analysis and ADP information management. This task draws on and integrates information from other tasks at the Tiburon Laboratory as well as relevant knowledge, studies and data from outside agencies. Members of this task participate extensively on advisory, committees and otherwise maintain close contact and liaison with the clients described below.

C. PRODUCT/SERVICES: Public testimony, reviews and advice to government agencies, industry and interest groups regarding fisheries and habitat. Also, the staff publishes in peer-reviewed journals and administrative reports, and presents talks at scientific meetings.

D. CLIENTS: Federal government agencies such as the Pacific Fishery Management Council (PFMC) and its entities, the Klamath River Fishery Council, Pacific Fishery Information Network (PacFIN), California Sea Grant, the Environmental Protection Agency, the U.S. Army Corps of Engineers, and the U.S. Navy. Other agencies include the California Resources Agency, State Lands Commission, and local agencies in the San Francisco area. Recreational and commercial fishing industries, conservation and other interest groups.

E. CONTRACTS:

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
MacCall, A.	Acting Director	GM/15	50	8L1C3A00
Ueber, E.	Economist	GS/12/07	100	"
Wiley, N.	Comp. Prog. Analyst	GS/11/08	100	"
Abramson, N.	IPA	GM/15	100	"
Vacant	Fishery Biologist	GS/11 or 12	100	"

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NOAA FISHERIES
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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L1C3A00	M	1	Publish book on "The Dynamic Geography of Marine Fish Populations"	N							
"	E	2	Submit report of Tiburon Laboratory research to Canada-U.S. Groundfish Treaty Technical Subcommittee.			J			X		X
"	E	3	Contribute "Forecasting by analogy" book chapter on effects of global warming on fisheries, using example of California sardine.	N							
"	E	4	Convene (cooperatively with California Sea Grant) a workshop on management problems of incidental catch and discards.		J						
"	A	5	Participate on California Sea Grant Committee; review and advise on funding of research proposals.	N	F		A				
"	A	6	Participate on PFMC-SCC; review fishery management plans and other documents as required.	-	-	-	-	-	-	-	-
"	A	7	Participate on Klamath River Fishery MGMT Council's Technical Team; provide estimates of run sizes and analysis of salmon mgmt options	-	-	-	-	-	-	-	-
"	A	8	Maintain liaison with agencies, industry and interest groups.	-	-	-	-	-	-	-	-

FORM 1

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RESOURCE SUMMARY

TITLE ->	Pacific Fisheries Environmental Group				
TASK NAMES ->	PFEG				V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
	8L1C5BTO				
DIRECT LABOR	372.2				372.2
PERS. BENEFITS	60.3				60.3
TRAVEL	12.0				12.0
TRANSPORTATION					
RENT,COMM.,UTIL.	10.0				10.0
PRINT/REPROD.	3.0				3.0
CONTRACTS	30.1				30.1
SUPPLIES/MATERIAL	10.0				10.0
EQUIPMENT	13.8				13.8
GRANTS					
TOTALS ->	511.4				511.4
FTE (FTP)	8				8
FTE (OTFTP)	1.3				1.3

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
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EXECUTIVE SUMMARY

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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Fishery/Environmental Climatology Modelling and Forecasting	Monterey, CA	9.3	511.4	Bakun	Info. Analysis & Dissemination

A. PROBLEM STATEMENT/OBJECTIVE: Natural variability interacts with effects of human actions in controlling the population dynamics of fishery resource populations. The Objective is to develop effective methodologies for incorporating information on natural environmental and biological variability in fisheries scientific procedures and activities.

B. METHODOLOGY/APPROACH: An integrated approach incorporates the following: I. Development of environmental index time series (i.e., research, calibration, verification, production, distribution, update, and consultative interpretation); II. Diagnostic studies of ecological anomalies (El Niño, etc., fishery resource connotations): III. Identification of environmental-biological causal linkages (comparative studies, exploratory data analysis, empirical modelling, etc.); IV. Development of environmental dependent fishery modelling methodology; V. Development of appropriate biological time series for calibration and verification.

C. PRODUCT/SERVICES: Research papers, technical reports, specialized data products and analyses, consultative and interpretive services, standard data products and routine updates.

D. CLIENTS: NMFS fisheries research projects, various NOAA laboratories, other federal, state and university research projects, federal and state regulatory agencies.

E. CONTRACTS: The task uses U.S. Navy computer facilities at FNOC in Monterey (approx. $5K); there is a data file maintenance contract with Compass Systems, Inc. (approx. $21.1K); equipment maintenance contract (approx. $4.5K).

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PERSONNEL SCHEDULE

# NAME	TITLE	PAY PLAN/GRADE/STEP	% TIME	TASK #
Bakun, A.	Supervisory Oceanographer	GM 15/0	100	8L1C5BTO
Parrish, R.	Fishery Biologist	GM 14/0	100	"
Mendelssohn, R.	Operations Res. Analyst	GS 14/5	100	"
Husby, D.	Oceanographer	GS 12/8	100	"
Norton, J.	Oceanographer	GS 12/4	100	"
Schwing, F.	Oceanographer	GS 12/2	100	"
Troian, R.	Secretary	GS 6/8	100	"
Mallicoate, D.	Statistician	GS 11/4	80	"
Mason, J.	Fishery Biologist	GS 7/2	50	"
Nichols, T.	Statistical Analyst	GS 5/2	100	"

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	FY 90 2	FY 90 3	FY 90 4	91 1	91 2	92 1	92 2
8L1C5BTO	A	1	Production of environmental index series for the California Current and other U.S. EEZ ecosystems	X	-	-	-	-	-	-	X
	A	2	Development, evaluation and space/time analysis of an expanded suite of California Current environmental time series	X	-	-	-	-	-	-	X
	M	3	"PEG5" Macintosh-optimal California Current surface marine observations data file complete and operational	D							
	A	4	Investigation of small-scale flow/topography interaction in the groundfish habitat (modeling and field operations)	X	-	-	-	-	-	-	X
	M	5	Hydrographic atlas for 3-year Groundfish Survey series		M						
	A	6	Cooperative research on recruitment/environment relationships in the demersal and literal complexes	X	-	-	-	-	-	-	X
	E	7	Analysis of Monterey Bay recreational fisheries data base, 1959-86 (draft report(s))				J				
	A	8	Development of improved mathematical methodologies for fishery/ environment analysis	X	-	-	-	-	-	-	X
	M	9	Book on development and evaluation of environment-dependent albacore fishery model; first draft completed	O							
	E	10	Manual for analysis of recruitment time series, (IOC/SCOR Working Group, UNESCO/SCOR pub.)				A				
	A	11	Potential effects of global climate change on the California Current ecosystem and fishery resources	X	-	-	-	-	-	-	X

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	2	3	4	91 1	2	92 1	2
8L1C5BTO	M B	12	Book: Patterns...Physical--Biological Interaction in the Ocean, Univ. Wash. Sea Grant				S				
	A	13	Coop. (w.CF&G) Calif. pelagic fishery data base update and analysis	X	-	-	-	-	-	-	X
	E	14	Analysis of effects of population density and environment on condition factors of Calif. pelagic fishes		F						
	A	15	Interregional comparative evaluation of empirical environment/ recruitment models and relationships	X	-	-	-	-	-	-	X

FORM C

NOAA FISHERIES

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SPECIAL INTEREST ITEM SUMMARY

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TITLE ($K)

CYOP REF #	Antarctic Res. Prog.	West Coast Groundfish	Ecosystems Stk. Abund.	HI Stk. Mgmt. Plan	UNLV Lim'l. Research	OTHER	TOTAL
601	$ 1,300.0	$	$	$	$	$	$ 1,300.0
811		363.9					363.9
812		194.6	81.0				275.6
813		284.5				15.5	300.0
733				400.0			400.0
061					400.0		400.0
TOTAL	1,300.0	843.0	81.0	400.0	400.0	15.5	$ 3,039.5

FORM C

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SPECIAL INTEREST ITEM SUMMARY

TITLE ($K)

CYOP REF #	Habitat Research	Tib. Lab. Study	Prot. Spec. Monk Seal	Fish. Stat. (SWR)	Fish. Stat. (SWC)	OTHER	TOTAL
701	$ 5.0	$	$	$	$	$ 538.9	$ 543.9
710	68.2					97.0	165.4
721	79.3					131.1	210.4
730	50.9					168.1	219.0
732	76.5					279.9	356.4
740	10.0					329.4	339.4
750	39.1		164.0			155.1	358.2
various	140.0						140.0
062		100.0					100.0
201				82.0		85.7	167.7
052					177.1	88.2	265.3
053					178.9		178.9
TOTAL	469.0	100.0	164.0	82.0	356.0	1,873.4	$ 3,044.6

FORM C

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

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SPECIAL INTEREST ITEM SUMMARY

TITLE ($K)

CYOP REF #	Habitat Conservation	Fish. Mkt. Development	Mahi Mahi Strategies			OTHER	TOTAL
103	$ 28.0	$	$	$	$	$ 426.4	$ 454.4
204		101.0	188.0			26.9	315.9
TOTAL	28.0	101.0	188.0			453.3	$ 770.3

FORM D

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

FMC	PAGE
SWR	1 OF 1

SPECIAL INTEREST ITEM DESCRIPTION

TITLE Antarctic Ecosystem Research AMOUNT ($K) 1300.0

A. PROBLEM STATEMENT/OBJECTIVE: This task advises the U. S. Delegation to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR) as to the abundance and productivity of Antarctic fishes, krill and their predators.

B. METHODOLOGY/APPROACH: The NOAA ship Surveyor will make a 4-month cruise to the Antarctic during the 1989/90 field season. A krill survey will be conducted in the Bransfield Strait Area and a pre-recruit survey for fish at South Georgia. A shore camp will also be established to determine vital roles for pinniped and bird populations.

C. PRODUCT/SERVICES: Products include reports of field activities, draft position papers, research reports, and program planning documents.

D. CLIENTS: U. S. Delegation to CCAMLR

E. CONTRACTS: Approximately $500K in contracts will be let to government and university researchers.

FORM D

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

FMC	PAGE
SWR	1 OF 1

SPECIAL INTEREST ITEM DESCRIPTION

TITLE : West Coast Groundfish AMOUNT ($K) 843

A. PROBLEM STATEMENT/OBJECTIVE: Provide fundamental knowledge of West Coast Groundfish resources and related industries; subsequently determine potential productivity of groundfish resources; finally formulate and explore alternative management policies which may be considered by the Pacific Fishery Management Council (PFMC) and other regulatory agencies. Requirements for this information have been defined by the scientific and Statistical Committee and Groundfish Plan Deveopment Teams of the PMFC. This information is provided to assist the PFMC and other resource managers in the design and implementation of plans which provide optimum benefits to users.

B. METHODOLOGY/APPROACH: Fundamental research on physiology and growth, reproduction, community interactions including competition and predation, and standard fishery dynamics provides a basis for estimating resource productivity. Options for harvesting and allocation are explored through mathematical modelling. Methods and findings receive extensive peer and agency review.

C. PRODUCT/SERVICES: Primary product is contribution to the PMFC's Groundfish FMP and supporting documents; secondary products are scientific papers and technical reports, interagency communications and reviews, and responses to requests for information.

D. CLIENTS: Primary clients are the PMFC and other State and Federal Government agencies. Other clients include user and interest groups.

E. CONTRACTS:

FORM D

NOAA FISHERIES
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SPECIAL INTEREST ITEM DESCRIPTION

TITLE: ECOSYTEMS, NEARSHORE FISHERIES AND STOCK ABUNDANCE   AMOUNT ($K) 81.0

A. PROBLEM STATEMENT/OBJECTIVE: Provide managment information for nearshore fisheries. Elucidate position and function of nearshore fish resources in the ecosystem.

B. METHODOLOGY/APPROACH: The work has two foci. First, work on the lingcod resource is enhanced, and will provide an improved basis for managing the intense inshore recreational and commercial fisheries. The second focus uses underwater (scuba) observations to determine the structure and dynamics of nearshore communities or ecosystems, with emphasis on their fish components.

C. PRODUCT/SERVICES: Two manuscripts or reports are scheduled, one on the status of the lingcod resource and the second on patterns of long-term change in a nearshore ecosystem.

D. CLIENTS: The lingcod status of stocks document will be used directly by the Groundfish Plan Development Team of the PMFC. The manuscript on patterns of long-term change will help address difficult problems such as effects of global climate change.

E. CONTRACTS: None

FORM D

NOAA FISHERIES

FY 1990 CURRENT YEAR OPERATING PLAN

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SWR	1 OF 1

SPECIAL INTEREST ITEM DESCRIPTION

TITLE Hawaii Stock Management Program AMOUNT ($K) 400.0

A. PROBLEM STATEMENT/OBJECTIVE: Recent evidence has documented declines in Hawaii's nearshore fisheries resources; in response, a research initiatives have been developed to determine the causes of this decline and to take remedial action. Issues of concern include habitat degradation or change, pollution, and changes in marine resource availability. The Hawaii Stock Management Program is being developed to address problems confronting the coastal marine environment. Objectives will be aimed at strengthening the understanding of nearshore fishery resources and developing strategies to reverse apparent stock declines through improved management of the stock and habitat.

B. METHODOLOGY/APPROACH: Innovative research on nearshore fishery resources of importance to recreational and commercial fishermen in Hawaii will be solicited through announcement of availability of funds in the Federal Register and CBD. Research topics of interest for this program include, but are not limited to population dynamics of nearshore resources, stock assessment, conservation and management of resources, enhancement of important stocks, habitat quality and changes in habitat availability, ecological studies of carrying capacity, analysis of larval and juvenile habitat requirements, resource user conflicts and economic research, and improvements to fisheries data collection and management.

C. PRODUCT/SERVICES: With new scientific findings from this research, NMFS will be able to assist the State of Hawaii and its local government to develop strategies to reverse apparent stock declines through improved management of the stock and habitat.

D. CLIENTS: State and local government, recreational and commercial fishery industries in Hawaii and the U. S.

E. CONTRACTS: Contract, grants and cooperative agreements will be used to fund research projects.

FORM D

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

FMC	PAGE
SWR	1 OF 1

SPECIAL INTEREST ITEM DESCRIPTION

TITLE UNLV Limnological Research on Lake Mead AMOUNT ($K) 400.0

A. PROBLEM STATEMENT/OBJECTIVE: Fishing is one of the most important recreational activities of the lake Mead National Recreation Area with an estimated annual economic value in excess of $70 million. major decreases, however, have occurred in the fisheries of Lake Mead over the past two decades. The decline in the numbers of threadfin shad, the principal forage species for largemouth and striped bass, appears to be a major contributor to the fisheries problems. Studies indicate that the shad population decline is related to a decrease in lake fertility that occurred after dams were built upstream in the 1960's. As the reservoirs upstream slowly filled, they cut off the phosphorus-rich sediments that historically fertilized the upper basin of Lake Mead. As the phosphorus levels declined, so did the algae, zooplankton and threadfin shad--vital components of the lake's food chain.

B. METHODOLOGY/APPROACH: Large-scale fertilization has been successfully practiced in some North American lakes to enhance fish stocks. The Lake Mead Fertilization Project is a three-year experiment designed to investigate the management potential of fertilization for improving the sport fisheries of Lake Mead. The experiment involves an annual application of up to 25,000 gallons of ammonium polyphosphate to 20,000 acres of the Overton Arm of Lake Mead.

C. PRODUCT/SERVICES: Recommendations on the biological and economical feasibility of increasing fisheries productivity by means of artificial fertilization.

D. CLIENTS: Recreational fishermen

E. CONTRACTS: University of Nevada, Las Vegas $400K - Lake Mead fertilization experiment for improved fisheries.

FORM D

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

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SPECIAL INTEREST ITEM DESCRIPTION

TITLE HABITAT RESEARCH — AMOUNT ($K) 469.0

A. PROBLEM STATEMENT/OBJECTIVE: IN THE CENTRAL PACIFIC OCEAN, SEVERAL REAL AND POTENTIAL THREATS TO FISHERIES HABITAT EXIST. THE ACTIVITIES OF THE FISHERIES HABITAT RESEARCH TASK ARE AIMED AT DETERMINING HOW IMPORTANT ELEMENTS OF THE AFFECTED ECOSYSTEMS VARY, SO THAT POTENTIAL IMPACTS OF THESE ACTIVITIES CAN BE ASSESSED. PARTICULAR ATTENTION IS PAID TO EVALUATING HABITATS OF ALL LIFE STAGES OF IMPORTANT SPECIES.

B. METHODOLOGY/APPROACH: BIOLOGICAL AND PHYSICAL DATA ARE COLLECTED BY SAMPLING ABOARD A VARIETY OF VESSELS, BY DIRECT OBSERVATION WITH SCUBA, OR BY CONDUCTING LABORATORY EXPERIMENTS ON LIVE ANIMALS. FOR MOST OF THE STUDIES, EMPHASIS IS PLACED ON DEVELOPING A TIME SERIES OF OBSERVATIONS TO ALLOW A BETTER UNDERSTANDING OF THE NATURAL VARIABILITY OF IMPORTANT SPECIES AND TO ESTABLISH A BASELINE FOR JUDGING THE EFFECTS OF PERTURBATIONS TO THE ECOSYSTEM.

C. PRODUCT/SERVICES: THE RESULTS OF THE RESEARCH WILL BE PUBLISHED BOTH AS ADMINISTRATIVE REPORTS AND AS JOURNAL ARTICLES.

D. CLIENTS: RESULTS OF THE RESEARCH, INCLUDING THE ANALYSES OF FIELD AND LABORATORY EXPERIMENTS, WILL BE USED BY THE NMFS SOUTHWEST REGION, THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, NOAA'S OCEAN MINERALS AND ENERGY DIVISION, THE MINERALS MANAGEMENT SERVICE, CONSERVATION GROUPS, PRIVATE CONSULTANTS AND CONTRACTORS, AND STATE OF HAWAII AGENCIES.

E. CONTRACTS:

FORM D

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

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SWR	1 OF 1

SPECIAL INTEREST ITEM DESCRIPTION (062)

TITLE Tiburon Lab Study AMOUNT ($K) 100.0K

A. PROBLEM STATEMENT/OBJECTIVE: Relocate and/or co-locate the current Tiburon Laboratory (SWFC-NMFS) to a location providing the physical, technical, and research environment needs designed to enhance and foster near coast fisheries research in species of interest to the WFMC, the several states and the NMFS.

B. METHODOLOGY/APPROACH: State and University efforts to relocate lab.

C. PRODUCT/SERVICES: New fisheries laboratory co-located with a major west coast marine environment laboratory of the University of California.

D. CLIENTS: State, federal fisheries management interests.

E. CONTRACTS: Architectural, engineering drawings, specifications and plans for new lab.

FORM D

NOAA FISHERIES

FY 1990 CURRENT YEAR OPERATING PLAN

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SWR	1 OF 1

SPECIAL INTEREST ITEM DESCRIPTION

TITLE HAWAIIAN MONK SEAL AMOUNT ($K) 164.0

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK MONITORS THE HAWAIIAN MONK SEAL AND SEA TURTLE POPULATIONS, PERFORMS RESEARCH TO IDENTIFY IMPEDIMENTS TO RECOVERY OF THESE ENDANGERED AND THREATENED SPECIES, AND EXPERIMENTS WITH RECOVERY ACTIONS DIRECTED AT INCREASING THE POPULATION SIZE. THE NMFS IS RESPONSIBLE FOR THIS WORK UNDER THE MARINE MAMMAL PROTECTION ACT & THE ENDANGERED SPECIES ACT. EFFORTS INCLUDE IMPLEMENTATION OF THE RECOVERY PLAN FOR THE MONK SEAL & THE PENDING DRAFT RECOVERY PLAN FOR HAWAIIAN SEA TURTLE.

B. METHODOLOGY/APPROACH: THE PRINCIPAL RESEARCH IN THIS TASK IS PERFORMED BY FIELD TEAMS AT BREEDING SITES IN THE NORTHWESTERN HAWAIIAN ISLANDS. FLIPPER TAGS ARE USED TO COLLECT DATA ON SURVIVAL, REPRODUCTION, GROWTH RATE MOVEMENTS, POPULATION SIZE, AND COMPOSITION. SOME MONK SEAL PUPS ARE COLLECTED FOR TEMPORARY CAPTIVE MAINTENANCE TO INCREASE SURVIVORSHIP. REHABILITATION OF SOME '88 PUPS WILL CONTINUE AND THESE WILL BE RELEASED IN THE SPRING OF 1989. ASSESSMENTS ARE CONDUCTED OF SEA TURTLES AND THEIR FORAGING HABITAT IN COASTAL WATERS OFF THE MAIN HAWAIIAN ISLANDS.

C. PRODUCT/SERVICES: POPULATION DATA, IMPEDIMENTS TO RECOVERY WHICH ARE IDENTIFIED, AND RECOVERY METHODOLOGIES ARE SUMMARIZED INTO TECHNICAL REPORTS.

D. CLIENTS: THE PRIMARY CLIENTS ARE THE NMFS, MARINE MAMMAL COMMISSION, FISH AND WILDLIFE SERVICE, AND HAWAIIAN MONK SEAL RECOVERY TEAMS. THE CLIENTS USE THE PRODUCTS TO RECOMMEND AND PLAN FUTURE RESEARCH, INITIATE MANAGEMENT STRATEGIES, AND TAKE APPROPRIATE RECOVERY ACTIONS TO ENHANCE THE SPECIES SURVIVAL STATUS.

E. CONTRACTS: APPROXIMATELY $11K IN SMALL CONTRACTS WILL BE LET FOR GENETIC AND DISEASE WORK.

FORM D

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

FMC	PAGE
SWR	1 OF 1

SPECIAL INTEREST ITEM DESCRIPTION

TITLE Fishery Statistics Information — AMOUNT ($K) 82.0

A. PROBLEM STATEMENT/OBJECTIVE: Program objectives are to investigate and evaluate unutilized or underutilized fisheries resources, new fishing techniques, gear and areas for deployment. In the SWR, state regulations -- due to catches of marine mammals, seabirds, prohibited species and conflicts with other users -- prohibit the use of gill nets in many areas historically fished with such gear. It is, therefore, necessary and desirable to identify alternative fisheries, fishing gear and techniques. In addition, key impediments to the development and expansion of new and existing fisheries are identified and actions are taken to overcome impediments and take advantage of opportunities available to the fishing industry.

B. METHODOLOGY/APPROACH: Alternative fisheries and gear techniques are identified through field testing of new fishing gear or through alternative means of deployment. Foreign markets are surveyed for types of fish and fish products available to fishermen in the SWR, but currently not utilized or underutilized. In many cases, the life history of the underutilized species are also researched and documented. This information is used by fishermen and fishery managers. Methods of harvesting, processing and marketing underutilized species are identified, tested on a small scale, and evaluated. If successful, the information is made available to fishermen, particularly to those fishermen who have been impacted by prohibitory gear regulations or in cases where conflicts between resource users have escalated.

C. PRODUCT/SERVICES: Products and services range from informal to formal delivery to the fishing industry of the results of investigations on new fishing technology, and fisheries resources that may yield economic return. Results are also delivered via formal and informal meetings with industry, through regional newsletters, and through formal scientific publications. Recent products and services have led to the development of a multimillion dollar sea urchin fishery and, more recently, the development of a growing hagfish fishery.

D. CLIENTS: Principal clients are fishermen, processors, and exporters seeking new fisheries, processing techniques, and fish and fish products for export. Information is also supplied to NOAA-Fisheries in support of management and trade analysis needs.

E. CONTRACTS: None at this time.

FORM D

NOAA FISHERIES

FY 1990 CURRENT YEAR OPERATING PLAN

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SWR	

SPECIAL INTEREST ITEM DESCRIPTION

TITLE Fishery Statistics AMOUNT ($K) 356.0

A. PROBLEM STATEMENT/OBJECTIVE: To provide timely and accurate fisheries data and information required for planning and management of Pacific Ocean fisheries to states, councils, territories, and common wealth agencies. To provide the computer technology support services which enable the research and management staff to efficiently and effectively meet the Center's mission in the management of the living marine resources.

B. METHODOLOGY/APPROACH: Fishery data are collected primarily by state agencies and then accumulated, compiled and maintained in a regional data base system. FIN provides data summaries and answers data requests from all qualified users. The ITS serves as a staff unit to assist users in establishing computer hardware and software systems including the design of statistical and research data bases.

C. PRODUCT/SERVICES: The FIN provides resources and technical assistance to state, territorial, and commonwealth fisheries agencies as a cooperative effort to establish and maintain regional data networks to meet informational requirement of the MFCMA. ITS serves 1) as the technical advisor for the Director's Office in the development of long range and short range ADP plans and in the recommendations for the transition from obsolete to next generation computer and telecommunication systems and 2) as the service unit for the La Jolla's staff by developing and implementing management systems, maintaining administrative systems, providing hardware/software consulting services, and conducting/providing user training programs.

D. CLIENTS: Users of FIN's data banks include state and federal government agencies, university researchers, consulting firms and industry. The users of the services are the management, scientific, technical, and administrative personnel at the La Jolla Laboratory. ITS interacts with the Southwest Regional Office and the other laboratories of the Southwest Fisheries Center. ITS provides the liaison with NOAA Fisheries Headquarters and other Fisheries Centers.

E. CONTRACTS: Approximately $8K in small miscellaneous contracts.

FORM D

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

SPECIAL INTEREST ITEM DESCRIPTION

TITLE Fishery Biologist - Northern Area AMOUNT ($K) 28.0

A. PROBLEM STATEMENT/OBJECTIVE:
The NOAA/Fisheries-Southwest Region Habitat Conservation Branch, Northern Area Office is responsible under the FWCA to conserve marine, estuarine, and anadromous fish resources and marine mammals and their habitats in Northern California. The position will enable the Norhtern Area Office to reprogram more specialized water policy staff to address winter-run chinook section 7 issues.

B. METHODOLOGY/APPROACH:
The Northern Area Fishery Biologist position provides the Region with the professional capability to work through the Federal permitting system to see that marine, estuarine, and anadromous fishery and and marine mammal habitat concerns are translated into project modifica-or mitigation programs, to conserve those valuable habitats. Annually, the position enables the to address the cumulative habitat impacts resulting a permit load of more than 150 applications. In addition, the position requires extensive reviews of EIS's and EIR's prepared under the mandates of NEPA, and CEQA, to address early-on the impacts of the major project situations as they affect resources of concern to NOAA/Fisheries. The position will also ensure an onsite capability to address marine mammal strandings and impacts from OCS oil and gas activities.

C. PRODUCT/SERVICES:
By ensuring that NOAA/Fisheries habitat concerns are incorporated into individual project designs, and mitigation plans, the Region, in cooperation with other resource agencies, has been able to significantly reduce the rate of cumulative habitat loss in Northern California, in keeping with NOAA's National Habitat Protection Policy. The position also provides the Region an onsite capability to handle Northern California marine mammal issues.

D. CLIENTS:
NOAA/Fisheries clients include private, local, state, and Federal interests involved in developing or conserving viable coastal, anadromous, and estuarine habitats. Direct Regional involvement also assures early coordination with permit applicants and developers, saving both time and money.

E. CONTRACTS:
None with this initiative.

FORM D

NOAA FISHERIES
FY 1990 CURRENT YEAR OPERATING PLAN

SPECIAL INTEREST ITEM DESCRIPTION

FMC	PAGE
SWR	1 OF 1

TITLE Fisheries Market Development AMOUNT ($K) 101

A. PROBLEM STATEMENT/OBJECTIVE: The Southwest Region has many fishery resources which enter international trade channels, primarily as exports to Pacific Rim countires such as Japan. These resources (squid, sablefish, sea urchin roe, groundfish, jack mackerel and hagfish) are important to the seafood industry; however, exports are often impeded by availability of competing resources or tariff and non-tariff barriers. The objective is to identify trade barriers to specific products and develop strategies to increase the market value of such products.

B. METHODOLOGY/APPROACH: Data on resource availability, trade channels and flows, competing products, trade and technological barriers will be collected, collated and analyzed. Strategies and recommendations will be made to both industry and government on how foreign markets can be developed and used to our advantage.

C. PRODUCT/SERVICES: Reports and memoranda will be developed and distributed to both government and industry. The reports and memoranda will include recommendations on how to improve market access and the performance of U.S. seafood products in foreign and domestic markets.

D. CLIENTS: In general, clients will be wholesalers, processors, brokers and exporters of U.S. Seafood products. In addition government organizations such as NMFS/NOAA headquarters, Office of the U.S. Trade Representative and Department of State may also use the information generated.

E. CONTRACTS: None at this time.

FORM D

NOAA FISHERIES

FY 1990 CURRENT YEAR OPERATING PLAN

SPECIAL INTEREST ITEM DESCRIPTION

FMC SWR

TITLE Mahi Mahi Export Strategies

AMOUNT ($K) 188

A. PROBLEM STATEMENT/OBJECTIVE: The Congress has appropriated moneys to carry out studies to facilitate exports of mahimahi in the Pacific island areas. Given that mahimahi production in Hawaii and other island areas are limited, the objective will be to undertake studies and develop methods to boost production of Mahi Mahi via mariculture for domestic and export markets.

B. METHODOLOGY/APPROACH: The methodology will be to make an award in the form of a grant or contract to carry out the research.

C. PRODUCT/SERVICES: Products and services will be manuals or reports outlining techniques, technology and strategies for developing and expanding the commercial-scale culture of mahi mahi.

D. CLIENTS: The Oceanic Institute and the private sector mariculture industry.

E. CONTRACTS: None at this time.

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FY 1990 SUPPLEMENTAL

DATE		2 August 1989
FMC	REF. NO.	PAGE
SWR	NEW-1/5	1 OF 6

RESOURCE SUMMARY

TITLE -> Implementation of Protected Species Recovery Plans

TASK NAMES ->	MONK SEAL	SEA TURTLE	CHINOOK		∨
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	94.1	34.4			128.5
PERS. BENEFITS	12.4	4.4			16.8
TRAVEL	5.0	6.0			11.0
TRANSPORTATION	11.5				11.5
RENT, COMM., UTIL.	1.0				1.0
PRINT/REPROD.	0.0				
CONTRACTS	105.0	80.0	50.0		235.0
SUPPLIES/MATERIAL	33.0	20.0			53.0
EQUIPMENT	8.0	5.2			13.2
GRANTS	0.0				
TOTALS ->	270.0	150.0	50.0		470.0
FTE (FTP)					
FTE (OTFTP)	4	2			

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Isadore Barrett
EC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	NEW-1/5	2 OF 4

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
MONK SEAL RECOVERY ACTIVITY			270.0		

A. PROBLEM STATEMENT/OBJECTIVE: NOAA FISHERIES IS RESPONSIBLE FOR MONITORING AND RECOVERY OF THE HAWAIIAN MONK SEAL POPULATION UNDER THE MMPA AND ESA, AND IMPLEMENTATION OF THE SPECIES RECOVERY RECOVERY PLAN. THIS TASK WORK COMPLEMENTS CURRENTLY FUNDED ACTIVITIES IN THIS AREA TO ALLOW A COMPLETE MONITORING EFFORT FIELD RESEARCH ON THE ADULT MALE "MOBBING" PROBLEM, AND INITIATION OF A PILOT FIELD STUDY INTO ENERGETICS AND FORAGING PATTERNS OF SEALS AT FRENCH FRIGATE SHOALS.

B. METHODOLOGY/APPROACH: THE POPULATION MONITORING EFFORT INCLUDING PUP TAGGING AND SUFFICIENT BEACH CENSUS DATA COLLECTION TO ESTIMATE SURVIVAL, MOVEMENT, AND POPULATION SIZE AND COMPOSITION WILL BE EXPANDED TO ALL MAJOR BREEDING ISLANDS. CONTROL OF ADULT MALE AGGRESSIVE BEHAVIOR WILL BE EVALUATED IN A FIELD STUDY AT LAYSAN ISLAND. TO DETERMINE IF FEMALE SURVIVAL IS ENHANCED. DIVE RECORDERS AND DOUBLE-LABELLED WATER TECHNIQUES WILL BE USED IN RESEARCH TO INPUT DETERMINATION OF OSP FOR THE MONK SEAL POPULATION. THE HEADSTART PROGRAM WILL BE MAINTAINED AND ENHANCED.

C. PRODUCT/SERVICES: PRODUCTS ARE TECHNICAL REPORTS AND JOURNAL PUBLICATIONS OF POPULATION DATA AND METHODS TESTED TO BRING ABOUT RECOVERY OF THE SPECIES. INCREASED SURVIVAL OF FEMALES MAY BE ACHIEVED BY SOME OF THE METHODS TESTED.

D. CLIENTS: PRIMARY CLIENTS ARE NOAA FISHERIES MANAGEMENT, THE MARINE MAMMAL COMMISSION, U.S. FISH AND WILDLIFE SERVICE AND THE HAWAIIAN MONK SEAL RECOVERY TEAM. THE CLIENTS USE THE PRODUCTS TO RECOMMEND AND PLAN FUTURE RESEARCH AND MANAGEMENT AND RCOVERY ACTIONS.

E. CONTRACTS: DECAPEPTYL EFFECTS ON SERUM TESTOSTERONE IN THE NORTHERN ELEPHANT SEAL ($15k).

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	NEW-1/5	3 OF 6

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
PACIFIC SEA TURTLE RECOVERY			150.0		

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK CARRIES OUT A BROAD-BASED PROGRAM OF RESEARCH AND OTHER ACTIVITIES ON THREATENED AND ENDANGERED SPECIES OF SEA TURTLES IN HAWAII AND OTHER SITES IN THE PACIFIC REGION. NOAA FISHERIES IS RESPONSIBLE FOR THESE SPECIES UNDER THE ESA WHEN THEY OCCUR IN MARINE HABITATS OF THEIR LIFE HISTORY. EFFORTS INCLUDE IMPLEMENTATION OF THE DRAFT HAWAIIAN SEA TURTLE RECOVERY PLAN.

B. METHODOLOGY/APPROACH: PRINCIPAL METHODS OF STUDY INVOLVE TAG AND RECAPTURE TO OBTAIN ESSENTIAL DATA ON POPULATION SIZE, GROWTH RATES, MIGRATIONS, PREDATION, DISEASE, HUMAN-INDUCED MORTALITY, PRODUCTIVITY AND SURVIVORSHIP. IN-WATER SCUBA AND SNORKEL DIVING ARE BASIC RESEARCH TOOLS USED.

C. PRODUCT/SERVICES: DATA ON POPULATION DYNAMICS, LIFE HISTORY AND ECOLOGY OF SEA TURTLES NECESSARY TO ACCOMPLISH BIOLOGICAL RECOVERY AND EFFECTIVE LONGTERM MANAGEMENT ARE SUMMARIZED INTO TECHNICAL REPORTS.

D. CLIENTS: PRIMARY CLIENTS ARE NOAA FISHERIES, FISH AND WILDLIFE SERVICE, NATIONAL PARK SERVICE, AND VARIOUS OTHER FEDERAL, STATE AND COUNTY AGENCIES IDENTIFIED IN THE DRAFT HAWAIIAN SEA TURTLE RECOVERY PLAN.

E. CONTRACTS: RELATIONSHIP OF PARASITES TO ETIOLOGY OF FIBROPAPILLOMAS (15K); RELATIONSHIP OF VIRUSES TO ETIOLOGY OF FIBROPAPILLOMAS (35K); IMPACT OF SHARK PREDATION (25K); TAGGING OF INCIDENTALLY CAPTURED TURTLES (5K).

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	NEW-1/5	4 OF 6

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
WINTER RUN CHINOOK RECOV.			50.0		

A. PROBLEM STATEMENT/OBJECTIVE:

B. METHODOLOGY/APPROACH: DEFINE THE OUT-MIGRATION TIMING OF WINTER-RUN CHINOOK IN THE SACRAMENTO RIVER.

C. PRODUCT/SERVICES:

D. CLIENTS:

E. CONTRACTS:

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FY 1990 SUPPLEMENTAL

DATE	August 11, 1989	
FMC	REF. NO.	PAGE
SWR	NEW-2/5	1 OF 3

RESOURCE SUMMARY					
TITLE ->	Cal. Sable & Dover Stock Assess.				
TASK NAMES ->					V
OBJECT CLASS	TASK #1 (AEPM)	TASK #2 (ROV)	TASK #3	TASK #4	TOTALS
DIRECT LABOR	37.3	6.7			44.0
BENEFITS	2.5	0			2.5
TRAVEL	0.2	0.3			0.5
TRANSPORTATION	0	0			0
RENT,COMM.,UTIL.	0	0			0
PRINT/REPROD.	0	0			0
CONTRACTS	150.0	42.0			192.0
SUPPLIES/MATERIAL	10.0	1.0			11.0
EQUIPMENT	0	0			0
GRANTS	0	0			0
TOTALS ->	200.0	50.0			250.0
FTE (FTP)	0	0			0
FTE (OTFTP)	1.0	0			1.0

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
0	#1:30 #2:14
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
EC Fullerton

HQ CONTACT

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FMC	REF. NO.	PAGE
SWR	NEW-2/5	2 OF 3

EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
CA Sable & Dover Stock Ass.	La Jolla	1	250.0	J.R. Hunter	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: This task develops new methodologies for fishery independent biomass estimation and applies the best mix of these methodologies to estimate the biomass of groundfish stocks such as sablefish and Dover sole. Accurate and precise estimates are needed to implement the groundfish plan of the Pacific Fishery Management Council. Current methods used for sablefish Dover sole and other groundfish are imprecise and could be biased. A new mix of methodologies is needed.

B. METHODOLOGY/APPROACH: Task 1 provides ship and field support for biomass estimation of sablefish using a new methodology developed at the SWFC, the annual egg production method (AEPM). Initial work indicates the method will provide the accurate estimates of sablefish biomass needed by PFMC traditional methods have failed in sablefish. Task 2 extends a pilot study designed to evaluate the use of a remotely operated vehicle (ROV) for estimating biomass of groundfishes. The vehicle rental and shiptime are currently funded by NURP for one week per year. This is too short a period for adequate field testing of the method. The additional funding will provide the first quantitative field evaluation of a method that may ultimately be the preferred biomass estimation technique of the 21st century.

C. PRODUCT/SERVICES: Biomass estimates are incorporated in the Council's Annual Stock States document and are used to regulate the west coast fisheries. In addition, if the proposed validation of the two new techniques is successful, this work would have far reaching effects in the U.S. and worldwide because more accurate and precise stock assessment methods are urgently needed throughout the world. The results will be published in peer reviewed journals.

D. CLIENTS: The primary clients are the Pacific Fishery Management Council and its entities. Over the long term, successful application of these methods will have a major effect on fishery science methodology worldwide because, in many cases, traditional methods have not been sufficiently accurate enough to manage the world's fisheries.

E. CONTRACTS: Major contracts are let under tasks #1 and #2 to charter research and commercial fishing vessels.

FORM 1
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NOAA FISHERIES
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SWR .	NEW-3/5	1 OF 3

RESOURCE SUMMARY (SUPPLEMENTAL)

TITLE: SOUTH PACIFIC ALBACORE DRIFTNET IMPACTS

TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	128.2				128.2
PERS. BENEFITS	17.0				17.0
TRAVEL	21.0				21.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	4.8				4.8
PRINT/REPROD.	0.0				0.0
CONTRACTS	93.0				93.0
SUPPLIES/MATERIAL	6.0				6.0
EQUIPMENT	80.0				80.0
GRANTS	0.0				0.0
TOTALS ->	350.0				350.0
FTE (FTP)	3.0				3.0
FTE (OTFTP)	2.0				2.0

VESSELS # SEA DAYS ALLOC.	
0	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Isadore Barrett
EC Fullerton

HQ CONTACT

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NOAA FISHERIES
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EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
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TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
S. PACIFIC ALBACORE DRIFTNET IMPACTS	HON. LAB.	5.0	350.0	G. BOEHLERT	.

A. PROBLEM STATEMENT/OBJECTIVE: RADICAL CHANGES HAVE OCCURRED RECENTLY IN THE SOUTH PACIFIC ALBACORE FISHERY WITH THE EXPANSION OF SURFACE FISHING WITH DRIFT GILL NETS. CONCERNS HAVE BEEN EXPRESSED ABOUT OVERFISHING, YET LITTLE SCIENTIFIC INFORMATION IS AVAILABLE TO ASSESS THE STATUS OF THE RESOURCE AND TO PROVIDE A BASIS FOR MANAGEMENT ADVICE. THE PROGRAM'S PURPOSE IS TO PROVIDE QUANTITATIVE ASSESSMENTS OF THE ALBACORE STOCK AND TECHNICAL ADVICE TO NMFS MANAGEMENT BASED ON SOUND SCIENTIFIC MONITORING AND RESEARCH.

B. METHODOLOGY/APPROACH: THE PROGRAM WILL USE FISHERY STATISTICS COLLECTED THROUGH NMFS MONITORING PROGRAMS AND BIOLOGICAL DATA COLLECTED FROM SEA SURVEYS AND EXPERIMENTS. STANDARD ANALYTICAL MODELS OF FISH POPULATION DYNAMICS AND NUMERICAL SIMULATION METHODS WILL BE USED, BUT NEW STATISTICAL TECHNIQUES AND PROCEDURES WILL BE DEVELOPED WHERE NECESSARY.

C. PRODUCT/SERVICES: THE PROGRAM WILL ISSUE REPORTS ON THE STATUS OF THE ALBACORE RESOURCE AND FISHERIES, INCLUDING ESTIMATES OF YIELD POTENTIALS AND FISHERY INTERACTIONS AND EVALUATIONS OF OPTIONS BASED ON DATA COLLECTED THROUGH MONITORING PROGRAMS OR SEA SURVEYS. TECHNICAL SUPPORT WILL BE PROVIDED FOR U.S. PARTICIPATION IN INTERNATIONAL CONSERVATION EFFORTS OR DISCUSSIONS.

D. CLIENTS: THE PROGRAM SERVES NOAA FISHERIES MANAGERS AND POLICY MAKERS IN NMFS HEADQUARTERS, AND THE INTERESTS OF U.S. TUNA VESSEL OWNERS, HARVESTERS, AND PROCESSORS (PARTICULARY THOSE INVOLVED WITH ALBACORE).

E. CONTRACTS: THE PROGRAM WILL LET CONTRACTS FOR COLLECTION OF DATA FROM COMMERCIAL FISHING VESSELS, PROCESSING OF BIOLOGICAL SAMPLES, AND CONDUCT OF REGIONAL BIOLOGICAL SAMPLING PROGRAMS.

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NOAA FISHERIES
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DATE	AUG 1989	
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RESOURCE SUMMARY

TITLE ->	Tuna Research & Management Program				
TASK NAMES ->					V
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	119.9	105.9			225.8
PERS. BENEFITS	30.5	9.1			39.6
TRAVEL	30.0	20.0			50.0
TRANSPORTATION	2.3	0			2.3
RENT, COMM., UTIL.	8.5	2.0			10.5
PRINT/REPROD.	10.0	2.0			12.0
CONTRACTS	131.5	40.0			171.5
SUPPLIES/MATERIAL	2.5	26.0			28.5
EQUIPMENT	14.8	45.0			59.8
GRANTS	0	0			0
TOTALS ->	350.0	250.0			600.0
FTE (FTP)	4.75	3.0			7.75
FTE (OTFTP)		1.5			1.5

APPROVAL SIGNATURE Izadore Barrett / BC Fullerton

HQ CONTACT

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
# FREE DAYS	

CROSS REFERENCES

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
Tuna Res. & Mgmt. Prog.	Terminal I.	7.75	600	J. Dentler	Fishery Industry Information

A. PROBLEM STATEMENT/OBJECTIVE: Program objective is twofold: 1. To fulfil U.S. obligations pursuant to the South Pacific Tuna Treaty (SPTT) and in so doing, ensure that licensed tuna seiner owners and operators understand and comply with the rules and regulations of the SPTT; and 2. To conduct research for determining status of stocks involved in the Treaty.

B. METHODOLOGY/APPROACH: Overall program management is in Terminal Island with responsibility for contacts with Forum Fishery Agency (FFA) personnel, overall policy guidance and supervision of field operations in American Samoa, Guam and La Jolla. Staff in American Samoa monitors U.S. fleet activities--collecting Catch Report Forms and Unloading Logbooks from licensed vessels, sampling landings for length frequency and species composition, checking fishing records for accuracy and completeness, maintaining contact with canneries and assisting in placement and orientation of FFA observers aboard U.S. vessels. Staff in Guam is primarily involved with assisting in placement of FFA observers and in monitoring transshipment of catches. Staff in La Jolla is responsible for processing data on the U.S. fishery and for collecting and analyzing data on the condition of the stocks. For this latter activity, research cruises, experiments, and contacts with foreign scientists are used to obtain region-wide data and information for conducting status of stocks analyses.

C. PRODUCT/SERVICES: Products and services include information on rules and regulations for licensed seiner owners and operators, obligatory fishing forms and data for the FFA, and data and background information for NMFS managers. Obligatory forms are submitted to FFA regularly pursuant to Treaty requirements. An instructional video tape describing obligations, duties, rules and regulations of licensed tuna vessel owners and operators has been produced along with a guidebook entitled "Purse seine fishermen's guide to the South Pacific Tuna Treaty." These products are used to instruct license holders and are kept current. Background documents for guiding the national plan and policy for international management of tunas and other oceanic species are produced.

D. CLIENTS: Clients include U.S. tuna seiner owners and operators, who are eligible for licensing under the SPTT (currently some 34 vessels); the FFA, who depends on NMFS for obligatory data, and liaison with the U.S. fleet; and U.S. officials in NMFS headquarters and Department of State, who use data and information for evaluating national policies, and in interacting with constituents.
E. CONTRACTS: Policy evaluation (30K); Historical purse seine data (10K); Prosecution/ Enforcement (100K)

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NOAA FISHERIES
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DATE	August 11, 1989	
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RESOURCE SUMMARY

TITLE -> Cal. Anchovy Stock Ass. For FMP

TASK NAMES ->					\/
OBJECT CLASS	TASK #1 (ANCHOVY)	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	71.4				71.4
BENEFITS	5.1				5.1
TRAVEL	0.5				0.5
TRANSPORTATION	0				0
RENT, COMM., UTIL.	0				0
PRINT/REPROD.	0				0
CONTRACTS	300.0				300.0
SUPPLIES/MATERIAL	100.0				100.0
EQUIPMENT	23.0				23.0
GRANTS	0				0
TOTALS ->	500.0				500.0
FTE (FTP)	0				0
FTE (OTFTP)	3.0				3.0

APPROVAL SIGNATURE Izadore Barrett / EC Fullerton

HQ CONTACT

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
0	60
# FREE DAYS	

CROSS REFERENCES

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

TITLE	PRIN. FAC.	FTE	$K	UNIT LEADER	LINE ITEM NAME
CA Anchovy Stock Assess.	La Jolla	3.0	500.0	J.R. Hunter	Resource Information

A. PROBLEM STATEMENT/OBJECTIVE: The Fishery Management Plan for California anchovy requires an annual estimate of biomass. A mathematical model which uses all available age and abundance data provides the estimates. Over the last five years few data were available for the model, because surveys conducted by NMFS and by the State of California were discontinued. It is uncertain if the model provides an accurate estimate under these circumstances. As the spawning biomass is at a low level, the potential inaccuracy of the model is of concern to fishing interests. The objective of this task is to provide for one year an accurate and precise estimate of anchovy biomass which can be used to calibrate the model. This is a one time cost.

B. METHODOLOGY/APPROACH: The Daily Egg Production Method shall be used to provide a precise estimate of biomass. The method requires a 60-day plankton and trawl survey (funds are requested to charter a research vessel, equip it for the survey, provide salaries of temporary support personnel and premium pay). Data and specimens collected from the survey will be analyzed and a biomass estimate provided to the Anchovy Management Team and PFMC in 1990 and subsequently used t calibrate the model for the 1991 estimate.

C. PRODUCT/SERVICES: Products are an accurate and precise assessment of anchovy stock in 1990 and a calibration of the model in 1991.

D. CLIENTS: Clients are the Pacific Fishery Management Council, U. S. representatives in international fisheries investigations and other public groups concerned with ocean management.

E. CONTRACTS: Charter vessel for survey.

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MILESTONE ARRAY

TASK #	MAE	SEQ	SIGNIFICANT MILESTONE DISCRIPTIONS	FY 90 1	2	3	4	91 1	2	92 1	2
Anchovy	E	1	Conduct biomass survey		F	A					
"	E	2	Analyze data and estimate biomass of northern anchovy stock			M					
"	A	3	Calibrate existing model in FMP				J	D			

FORM 1
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NOAA FISHERIES
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DRIFTNET PROPOSAL
SUPPLEMENTAL INCREASE FOR SWR 723

RESOURCE SUMMARY

TITLE -> EVALUATION OF DRIFTNET IMPACTS ON TUNA, BILLFISH AND SEA TURTLES

TASK NAMES ->					\/
OBJECT CLASS	TASK #1	TASK #2	TASK #3	TASK #4	TOTALS
DIRECT LABOR	245.7				245.7
PERS. BENEFITS	32.5				32.5
TRAVEL	25.0				25.0
TRANSPORTATION	0.0				0.0
RENT,COMM.,UTIL.	0.0				0.0
PRINT/REPROD.	0.0				0.0
CONTRACTS	100.0				100.0
SUPPLIES/MATERIAL	35.0				35.0
EQUIPMENT	198.2				198.2
GRANTS	0.0				0.0
TOTALS ->	636.4				636.4
FTE (FTP)	4.1				4.1
FTE (OTFTP)	3.5				3.5

VESSELS # SEA DAYS ALLOC.	
NOAA	CHARTERS
30	
# FREE DAYS	

CROSS REFERENCES

APPROVAL SIGNATURE Izadore Barrett
for Fullerton

HQ CONTACT

FORM 2
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NOAA FISHERIES
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EXECUTIVE SUMMARY

FMC	REF. NO.	PAGE
SWR	723	2 OF 4

TITLE	N. PACIFIC DRIFTNET	FTE	$K	UNIT LEADER	LINE ITEM NAME
TRANSITION ZONE ECOSYSTEM	HON. LAB.	7.1	636.4	J. WETHERALL	

A. PROBLEM STATEMENT/OBJECTIVE: HIGH SEAS DRIFTNET FISHERIES TARGETING SQUID AND ALBACORE IN THE NORTH PACIFIC TRANSITION ZONE (NPTZ) ARE A MAJOR CONCERN OF NOAA FISHERIES. IN ACCORDANCE WITH THE 1987 DRIFTNET ACT, RESEARCH MUST BE UNDERTAKEN TO ASSESS AND MONITOR IMPACTS OF THESE FISHERIES. THE PROGRAM'S OBJECTIVE IS TO PLAN AND EXECUTE SCIENTIFIC RESEARCH ON LIVING MARINE RESOURCES OF THE NPTZ, AND IN PARTICULAR TO PROVIDE A BROAD SCIENTIFIC BASIS FOR EVALUATING DRIFT-NET IMPACTS ON TUNAS BILLFISHES, SEA TURTLES, AND OTHER PELAGIC SPECIES OF CRITICAL IMPORTANCE TO CONSTITUENTS IN THE SOUTHWEST REGION.

B. METHODOLOGY/APPROACH: THE PROGRAM WILL IDENTIFY AND ADDRESS CRITICAL BIOLOGICAL QUESTIONS THROUGH RESOURCE SURVEYS AND AT-SEA EXPERIMENTS CONDUCTED ABOARD NOAA SHIPS, FOREIGN RESEARCH VESSELS, FOREIGN COMMERCIAL DRIFTNET VESSELS, OR CHARTERED COMMERCIAL FISHING VESSELS. STUDIES WILL LIKELY INCLUDE BASIC LIFE HISTORY DESCRIPTIONS, ESTIMATION OF DRIFTNET CATCHES AND ASSOCIATED MORTALITY OF KEY RESOURCES, MODELING OF ECOSYSTEM STRUCTURE AND INTERACTIONS, AND ASSESSMENT OF OVERALL DRIFTNET IMPACTS. DYNAMICS OF MARINE POPULATIONS IN THE NPTZ WILL BE STUDIED IN RELATION TO PHYSICAL OCEANOGRAPHY OF THE REGION.

C. PRODUCT/SERVICES: THE PROGRAM WILL PRODUCE REPORTS WITH QUANTITATIVE ASSESSMENTS OF FOREIGN DRIFTNET BY-CATCH OF TUNAS, BILLFISHES, AND OTHER RESOURCES, MANUSCRIPTS FOR PUBLICATION IN THE SCIENTIFIC LITERATURE, AND VARIOUS INFORMATION DOCUMENTS TO SUPPORT POLICY EVALUATIONS, INTERNA-TIONAL NEGOTIATIONS, AND OTHER NOAA FISHERIES MANAGEMENT TASKS.

D. CLIENTS: THE PROGRAM WILL SUPPORT NOAA FISHERIES POLICY AND MANAGEMENT STAFF IN THE SOUTHWEST REGION AND WASHINGTON, D.C., THE WESTERN REGIONAL FISHERIES MANAGEMENT COUNCIL, AND OTHER PARTIES WITH CONCERNS ABOUT THE HIGH SEAS FISHERIES IN THE NPTZ, INCLUDING THE U.S. ALBACORE INDUSTRY.

E. CONTRACTS: CONTRACTS MAY BE LET FOR CERTAIN ELEMENTS OF THE RESEARCH PROGRAM. POSSIBLE CANDIDATES INCLUDE: EXPERIMENTS TO DETERMINE DRIFTNET ESCAPEMENT RATES AND MORTALITY; LABORATORY PROCESSING OF BIOLOGICAL SAMPLES; RESEARCH VESSEL CHARTERS.